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27 SEP 1982

FEDERAL FUNDS

FOR

RESEARCH AND DEVELOPMENT

FEDERAL OBLIGATIONS FOR RESEARCH BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEARS 1970 - 1982

Division of Science Resources Studies
National Science Foundation
Washington, D.C. 20550
(202) 634-4636

Prepared by
Moshman Associates, Inc.
6400 Goldsboro Road
Bethesda, Maryland 20817

FEDERAL FUNDS

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FEDERAL OBLIGATIONS FOR RESEARCH BY AGENCY AND DETAILED FIELD OF SCIENCE:

FISCAL YEARS 1970 - 1982

NOTE: The 1982 budget data contained in these tables were submitted by the agencies prior to the September 1981 budget amendments.

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TECHNICAL NOTES:

1. Data shown for fiscal years 1981 and 1982 are based on the President's budget, as revised in March 1981, and are estimated.

2. Data shown reflect all corrections received from the participating departments and and agencies as of October 1981.

3. Definitions, discussions of data limitations, and comparison with other reports can be found in the series of annual reports and detailed statistical tables published by NSF under the title "Federal Funds for Research and Development."

TOTAL RESEARCH OBLIGATIONS BY DETAILED FIELD OF SCIENCE	FY 1970-77 (page)	FY 1975-82 (page)
TOTAL, ALL AGENCIES	1	27
DEPARTMENT OF AGRICULTURE	3	29
DEPARTMENT OF COMMERCE	5	31
DEPARTMENT OF DEFENSE	7	33
DEPARTMENT OF ENERGY	9	35
DEPARTMENT OF HEALTH & HUMAN SERVICES	11	37
HHS: ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMIN	13	39
HHS: NATIONAL INSTITUTES OF HEALTH	15	41
DEPARTMENT OF THE INTERIOR	17	43
ENVIRONMENTAL PROTECTION AGENCY	19	45
NATIONAL AERONAUTICS & SPACE ADMINISTRATION	21	47
NATIONAL SCIENCE FOUNDATION	23	49
ALL OTHER DEPARTMENTS AND AGENCIES	25	51
BASIC RESEARCH OBLIGATIONS BY DETAILED FIELD OF SCIENCE		
TOTAL, ALL AGENCIES	53	79
DEPARTMENT OF AGRICULTURE	55	81
DEPARTMENT OF COMMERCE	57	83
DEPARTMENT OF DEFENSE	59	85
DEPARTMENT OF ENERGY	61	87
DEPARTMENT OF HEALTH & HUMAN SERVICES	63	89
HHS: ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMIN	65	91
HHS: NATIONAL INSTITUTES OF HEALTH	67	93
DEPARTMENT OF THE INTERIOR	69	95
ENVIRONMENTAL PROTECTION AGENCY	71	97
NATIONAL AERONAUTICS & SPACE ADMINISTRATION	73	99
NATIONAL SCIENCE FOUNDATION	75	101
ALL OTHER DEPARTMENTS AND AGENCIES	77	103

APPLIED RESEARCH OBLIGATIONS BY DETAILED FIELD OF SCIENCE	FY 1970-77 (page)	FY 1975-82 (page)
TOTAL, ALL AGENCIES	105	131
DEPARTMENT OF AGRICULTURE	107	133
DEPARTMENT OF COMMERCE	109	135
DEPARTMENT OF DEFENSE	111	137
DEPARTMENT OF ENERGY	113	139
DEPARTMENT OF HEALTH & HUMAN SERVICES	115	141
HHS: ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMIN	117	143
HHS: NATIONAL INSTITUTES OF HEALTH	119	145
DEPARTMENT OF THE INTERIOR	121	147
ENVIRONMENTAL PROTECTION AGENCY	123	149
NATIONAL AERONAUTICS & SPACE ADMINISTRATION	125	151
NATIONAL SCIENCE FOUNDATION	127	153
ALL OTHER DEPARTMENTS AND AGENCIES	129	155

TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

TOTAL, ALL AGENCIES

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	4,900,798	5,123,171	5,547,656	5,581,429	6,175,240	6,729,708	7,819,332	8,514,115
LIFE SCIENCES, TOTAL	1,439,815	1,587,773	1,848,951	1,931,101	2,285,140	2,455,195	2,849,698	3,007,749
BIOLOGICAL & AGRICULTURAL, TOTAL	865,630	942,832	1,079,707	1,123,238	1,318,179	1,452,179	1,535,798	1,777,567
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	542,795	598,717	713,194	758,585	910,838	951,095	1,042,935	1,138,760
CLINICAL MEDICAL	374,252	391,019	464,191	494,240	565,660	550,563	586,666	634,377
OTHER MEDICAL	168,543	205,698	249,003	264,345	345,178	400,532	456,269	504,383
LIFE SCIENCES, NEC	31,390	48,224	56,050	49,278	38,125	51,921	70,983	91,422
PSYCHOLOGY, TOTAL	107,577	108,029	116,328	109,924	133,419	139,192	143,998	158,201
BIOLOGICAL ASPECTS	32,345	31,337	36,894	32,407	49,322	37,442	43,816	57,813
SOCIAL ASPECTS	53,460	54,068	50,725	47,702	51,962	57,069	54,920	54,508
PSYCHOLOGICAL SCIENCES, NEC	21,772	22,626	28,707	29,815	32,135	44,681	45,260	44,080
PHYSICAL SCIENCES, TOTAL	948,246	905,380	1,020,342	981,740	1,018,089	1,098,844	1,258,892	1,530,171
ASTRONOMY	136,455	126,852	138,405	123,085	138,030	168,319	183,093	197,305
CHEMISTRY	227,536	205,519	246,837	262,485	280,366	285,554	328,444	370,722
PHYSICS	554,570	528,783	573,591	543,238	556,841	594,954	709,263	866,260
PHYSICAL SCIENCES, NEC	27,685	44,226	63,509	52,934	43,032	47,817	58,092	95,884
ENVIRONMENTAL SCIENCES, TOTAL	485,567	534,348	567,599	580,527	636,327	727,269	789,284	906,001
ATMOSPHERIC SCIENCES	232,780	259,873	241,330	246,590	288,298	302,248	289,312	318,366
GEOLOGICAL SCIENCES	152,809	156,010	181,091	188,390	157,063	191,713	227,162	289,430
OCEANOGRAPHY	79,752	95,833	116,453	97,888	120,014	143,792	163,987	195,894
ENVIRONMENTAL SCIENCES, NEC	20,226	22,630	48,725	67,659	70,954	89,516	88,843	122,311

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TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

TOTAL, ALL AGENCIES

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	94,945	108,599	120,710	114,762	114,268	125,260	157,794	195,880
MATHEMATICS	-	-	-	-	-	-	69,871	96,414
COMPUTER SCIENCES	-	-	-	-	-	-	73,583	89,355
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	14,340	10,111
ENGINEERING, TOTAL	1,539,338	1,486,722	1,450,694	1,370,581	1,563,733	1,717,777	2,068,655	2,112,917
AERONAUTICAL	335,980	290,487	209,467	232,671	338,099	345,070	526,827	408,847
ASTRONAUTICAL	177,791	153,208	85,570	45,934	97,471	99,080	179,386	158,990
CHEMICAL	109,448	105,482	77,073	71,958	81,453	83,863	88,270	104,801
CIVIL	71,099	76,748	123,290	106,177	103,623	125,596	105,905	117,354
ELECTRICAL	283,505	277,931	333,660	297,577	269,240	286,968	297,685	382,727
MECHANICAL	178,337	189,159	174,749	212,937	131,712	162,480	185,680	199,173
METALLURGY & MATERIALS	136,467	157,421	182,066	172,507	190,646	221,846	274,909	293,833
ENGINEERING, NEC	246,729	236,306	284,819	230,820	373,489	392,874	409,993	447,192
SOCIAL SCIENCES, TOTAL	212,282	303,988	306,894	298,790	292,196	301,816	392,456	426,125
ANTHROPOLOGY	8,642	11,705	13,156	11,814	13,398	13,850	13,588	12,379
ECONOMICS	77,707	72,782	81,766	88,144	117,976	126,238	137,577	142,854
POLITICAL SCIENCE	7,827	4,997	4,581	7,097	8,461	11,693	7,239	8,479
SOCIOLOGY	37,803	105,300	119,378	102,073	64,294	54,907	53,646	52,157
SOCIAL SCIENCES, NEC	80,283	109,202	88,013	89,662	88,069	95,128	180,406	210,250
HISTORY	4,631	4,178	4,548	4,890	6,192	6,955	-	-
LINGUISTICS	1,712	2,699	3,813	4,187	3,148	3,049	-	-
OTHER SOCIAL SCIENCES	73,940	102,325	79,652	80,585	78,729	85,124	-	-
OTHER SCIENCES, NEC	75,050	90,338	116,180	194,004	154,088	188,555	178,559	179,071

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF AGRICULTURE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	271,925	292,152	337,189	354,106	385,064	401,944	442,224	524,020
LIFE SCIENCES, TOTAL	166,681	180,092	211,000	221,411	227,136	251,947	279,279	334,178
BIOLOGICAL & AGRICULTURAL, TOTAL	163,802	176,891	207,283	217,385	223,089	247,370	274,148	328,417
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	2,879	3,201	3,737	4,046	4,047	4,577	5,131	5,759
CLINICAL MEDICAL	2,762	3,068	3,737	4,046	4,047	4,577	5,131	5,759
OTHER MEDICAL	117	135	-	-	-	-	-	-
LIFE SCIENCES, NEC	-	-	-	-	-	-	-	-
PSYCHOLOGY, TOTAL	32	31	42	26	26	-	75	85
SOCIAL ASPECTS	32	31	42	26	26	-	75	85
PHYSICAL SCIENCES, TOTAL	36,908	38,665	45,450	47,438	48,744	49,792	53,126	63,434
CHEMISTRY	30,186	31,561	37,573	39,318	40,278	42,130	44,932	53,796
PHYSICS	6,722	7,026	7,877	8,120	8,466	7,662	8,194	9,638
PHYSICAL SCIENCES, NEC	-	78	-	-	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	4,838	5,428	6,217	6,737	7,328	11,601	12,497	14,104
ATMOSPHERIC SCIENCES	1,818	2,008	2,420	2,737	2,954	5,163	5,565	4,935
GEOLOGICAL SCIENCES	3,020	3,422	1,045	979	1,037	977	4,981	6,898
ENVIRONMENTAL SCIENCES, NEC	-	-	2,752	3,021	3,335	5,461	1,951	2,271

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TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF AGRICULTURE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	686	718	1,617	1,971	2,145	2,825	3,807	3,845
MATHEMATICS	-	-	-	-	-	-	3,807	3,845
ENGINEERING, TOTAL	28,909	30,011	31,445	32,742	34,243	35,073	37,094	44,190
CHEMICAL	4,200	3,903	3,245	3,313	3,447	3,181	3,049	4,183
CIVIL	3,312	3,580	4,580	4,912	5,215	4,814	5,205	8,457
ELECTRICAL	87	58	214	225	244	224	298	380
MECHANICAL	1,454	1,635	1,774	1,899	2,045	2,381	2,575	2,847
ENGINEERING, NEC	19,856	20,835	21,652	22,393	23,292	24,473	25,967	30,383
SOCIAL SCIENCES, TOTAL	33,663	38,818	41,170	43,506	45,301	50,700	58,338	64,188
ANTHROPOLOGY	-	-	-	12	11	-	-	-
ECONOMICS	31,857	34,924	38,580	40,980	42,534	47,605	53,099	60,018
POLITICAL SCIENCE	43	51	38	33	37	-	-	-
SOCIOLOGY	1,364	1,452	1,959	1,958	2,010	1,948	2,649	3,531
SOCIAL SCIENCES, NEC	399	389	583	523	709	1,149	590	639
HISTORY	149	180	250	269	280	362	-	-
OTHER SOCIAL SCIENCES	250	209	333	254	449	787	-	-
OTHER SCIENCES, NEC	208	391	228	275	143	8	8	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF COMMERCE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	94,114	113,674	143,394	130,155	129,189	144,420	155,713	176,129
LIFE SCIENCES, TOTAL	24,157	29,929	42,122	38,773	30,155	40,980	41,920	49,950
BIOLOGICAL & AGRICULTURAL, TOTAL	24,157	29,929	42,052	38,773	30,155	40,980	41,920	49,790
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	-	-	70	-	-	-	-	160
OTHER MEDICAL	-	-	70	-	-	-	-	160
PSYCHOLOGY, TOTAL	1,096	1,291	690	125	151	151	209	203
BIOLOGICAL ASPECTS	529	656	97	-	-	-	-	-
SOCIAL ASPECTS	567	635	593	125	151	151	209	203
PHYSICAL SCIENCES, TOTAL	17,156	19,179	19,973	22,458	23,189	20,554	22,811	27,799
ASTRONOMY	823	755	660	682	677	748	666	530
CHEMISTRY	7,402	7,150	8,094	9,700	9,318	8,243	7,137	9,545
PHYSICS	8,598	11,150	10,935	12,076	13,174	13,563	15,008	17,724
PHYSICAL SCIENCES, NEC	333	124	284	-	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	22,090	28,159	38,804	39,034	46,886	53,010	56,872	61,652
ATMOSPHERIC SCIENCES	15,109	18,715	25,808	22,648	29,867	34,918	36,865	37,478
GEOLOGICAL SCIENCES	4,545	6,420	8,844	1,946	917	1,355	1,339	1,146
OCEANOGRAPHY	2,436	3,024	4,152	14,440	16,102	16,739	18,668	23,028
ENVIRONMENTAL SCIENCES, NEC	-	-	-	-	-	-	-	-

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TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF COMMERCE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	1,347	901	1,288	1,365	1,293	2,314	3,900	4,903
MATHEMATICS	-	-	-	-	-	-	1,870	1,994
COMPUTER SCIENCES	-	-	-	-	-	-	2,030	2,909
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	-	-
ENGINEERING, TOTAL	15,689	26,145	34,617	22,858	22,397	18,941	18,117	23,852
AERONAUTICAL	125	-	-	-	-	-	-	-
CHEMICAL	958	1,185	1,625	-	80	80	62	492
CIVIL	4,064	11,808	9,982	5,024	5,987	5,686	5,599	5,497
ELECTRICAL	4,919	4,017	10,700	4,516	3,854	3,025	3,268	4,098
MECHANICAL	1,080	1,615	2,988	1,140	784	923	872	1,389
METALLURGY & MATERIALS	1,928	1,915	2,608	1,935	1,950	1,979	2,124	2,410
ENGINEERING, NEC	2,617	5,605	6,734	10,243	9,782	7,248	6,192	9,966
SOCIAL SCIENCES, TOTAL	10,826	4,836	5,799	5,542	5,138	7,750	8,634	7,028
ECONOMICS	10,430	4,314	5,350	5,416	4,978	7,593	8,414	6,810
POLITICAL SCIENCE	-	-	-	-	-	-	-	-
SOCIOLOGY	396	522	449	126	162	157	220	218
SOCIAL SCIENCES, NEC	-	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	1,753	3,234	103	-	-	720	3,250	744

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF DEFENSE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	1,329,900	1,309,283	1,504,554	1,438,079	1,434,408	1,431,007	1,527,481	1,715,845
LIFE SCIENCES, TOTAL	100,309	91,920	104,037	120,175	118,883	99,411	118,007	129,457
BIOLOGICAL & AGRICULTURAL, TOTAL	51,441	44,318	48,926	34,866	39,707	32,808	28,948	50,470
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	48,703	47,190	54,866	85,309	76,927	66,298	88,638	77,912
CLINICAL MEDICAL	47,052	45,085	52,351	70,780	64,760	48,921	62,117	55,783
OTHER MEDICAL	1,651	2,105	2,315	14,529	12,187	17,377	26,521	22,129
LIFE SCIENCES, NEC	165	412	245	-	229	305	423	1,075
PSYCHOLOGY, TOTAL	29,921	28,655	28,642	37,221	34,250	39,573	40,284	50,003
BIOLOGICAL ASPECTS	5,409	4,740	4,948	4,445	4,628	2,198	2,419	1,674
SOCIAL ASPECTS	13,792	13,567	11,243	18,442	14,980	22,031	22,887	27,741
PSYCHOLOGICAL SCIENCES, NEC	10,720	10,348	12,453	14,334	14,642	15,344	14,978	20,588
PHYSICAL SCIENCES, TOTAL	287,824	248,549	305,188	251,332	232,872	245,107	249,993	312,915
ASTRONOMY	11,620	9,450	18,521	9,406	9,540	12,228	9,859	9,454
CHEMISTRY	47,092	48,343	50,894	49,474	44,498	44,030	54,562	54,560
PHYSICS	203,184	149,327	187,294	148,508	147,589	153,854	141,621	174,468
PHYSICAL SCIENCES, NEC	25,928	41,429	50,477	43,944	31,247	34,995	44,151	74,433
ENVIRONMENTAL SCIENCES, TOTAL	138,014	149,843	159,401	135,387	130,379	133,775	154,439	120,917
ATMOSPHERIC SCIENCES	52,288	58,681	61,285	61,713	61,928	69,470	72,384	43,744
GEOLOGICAL SCIENCES	27,103	29,084	27,757	22,511	18,592	16,972	24,518	22,849
OCEANOGRAPHY	42,832	44,270	49,491	35,585	39,722	38,926	51,885	47,638
ENVIRONMENTAL SCIENCES, NEC	15,813	19,808	20,868	15,578	10,139	8,407	5,652	6,686

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TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF DEFENSE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	61,192	64,325	70,683	69,794	70,454	70,917	90,746	94,185
MATHEMATICS	-	-	-	-	-	-	30,687	27,209
COMPUTER SCIENCES	-	-	-	-	-	-	50,275	57,674
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	9,784	9,282
ENGINEERING, TOTAL	675,253	679,256	773,236	762,882	793,480	770,833	808,387	928,212
AERONAUTICAL	84,100	78,253	88,555	94,436	105,219	116,072	113,080	133,583
ASTRONAUTICAL	22,915	17,756	17,134	16,144	16,099	15,481	15,388	27,624
CHEMICAL	35,179	31,970	24,289	24,030	25,348	18,328	21,288	31,352
CIVIL	14,743	13,104	19,854	23,031	24,186	25,870	34,537	23,214
ELECTRICAL	200,364	201,937	245,132	223,800	216,336	229,188	215,477	301,178
MECHANICAL	111,452	112,979	103,566	142,728	99,158	109,885	128,054	138,068
METALLURGY & MATERIALS	88,033	78,918	77,472	82,030	81,122	78,124	81,779	99,822
ENGINEERING, NEC	138,467	144,339	199,234	156,683	226,012	179,907	198,786	173,593
SOCIAL SCIENCES, TOTAL	5,123	8,133	8,109	8,800	9,330	5,536	5,213	3,555
ANTHROPOLOGY	-	469	392	-	927	-	33	-
ECONOMICS	848	1,018	879	557	1,184	1,088	854	252
POLITICAL SCIENCE	2,514	1,584	1,056	1,648	355	1,347	891	1,404
SOCIOLOGY	1,380	2,140	4,385	4,040	5,853	1,587	1,745	1,899
SOCIAL SCIENCES, NEC	803	922	1,397	555	1,031	1,554	1,690	-
LINGUISTICS	111	388	593	8	321	408	-	-
OTHER SOCIAL SCIENCES	492	556	804	547	710	1,148	-	-
OTHER SCIENCES, NEC	32,284	40,582	55,260	52,488	46,780	65,855	62,412	78,621

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF ENERGY 1/

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	433,117	428,991	417,122	424,784	464,748	593,431	746,499	891,268
LIFE SCIENCES, TOTAL	80,719	79,534	79,223	84,661	89,883	128,721	102,928	114,863
BIOLOGICAL & AGRICULTURAL, TOTAL	72,649	71,309	71,054	75,002	79,410	119,805	74,978	81,231
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	8,070	8,225	8,169	9,659	10,473	8,916	8,523	9,028
CLINICAL MEDICAL	8,070	8,225	8,169	9,659	10,473	8,916	3,957	2,100
OTHER MEDICAL	-	-	-	-	-	-	4,566	6,928
LIFE SCIENCES, NEC	-	-	-	-	-	-	19,425	24,604
PHYSICAL SCIENCES, TOTAL	300,278	294,874	284,885	296,483	320,179	330,974	475,441	552,766
CHEMISTRY	64,218	60,511	54,087	52,388	61,108	63,642	76,485	76,302
PHYSICS	236,060	234,363	230,798	244,097	252,202	264 01	394,237	469,244
PHYSICAL SCIENCES, NEC	-	-	-	-	6,869	2,331	4,719	7,220
ENVIRONMENTAL SCIENCES, TOTAL	9,462	10,118	14,626	14,200	14,813	18,807	75,174	84,765
ATMOSPHERIC SCIENCES	5,318	5,812	7,942	7,931	7,493	8,830	14,959	13,433
GEOLOGICAL SCIENCES	1,942	2,085	3,711	2,687	1,635	2,958	24,586	28,389
OCEANOGRAPHY	2,202	2,219	2,973	2,963	3,557	5,021	13,787	13,354
ENVIRONMENTAL SCIENCES, NEC	-	-	-	619	2,128	-	21,842	29,589

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TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF ENERGY 1/

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	5,779	5,309	4,809	4,634	4,018	5,532	5,952	6,839
MATHEMATICS	-	-	-	-	-	-	3,862	4,445
COMPUTER SCIENCES	-	-	-	-	-	-	2,090	2,394
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	-	-
ENGINEERING, TOTAL	38,879	39,158	33,579	24,808	35,855	111,397	84,697	119,347
ASTRONAUTICAL	-	-	-	-	-	-	-	-
CHEMICAL	4,589	4,600	4,655	1,074	7,613	24,927	11,878	15,250
CIVIL	-	-	-	-	-	17,000	1,000	3,700
ELECTRICAL	-	-	-	-	1,295	5,656	100	2,402
MECHANICAL	-	-	-	-	1,363	7,210	2,822	4,754
METALLURGY & MATERIALS	30,986	33,393	28,057	23,732	24,807	46,928	59,603	76,548
ENGINEERING, NEC	1,304	1,165	867	-	777	9,676	9,296	16,693
SOCIAL SCIENCES, TOTAL	-	-	-	-	-	-	2,309	2,686
ECONOMICS	-	-	-	-	-	-	2,309	1,551
POLITICAL SCIENCE	-	-	-	-	-	-	-	-
SOCIOLOGY	-	-	-	-	-	-	-	135
SOCIAL SCIENCES, NEC	-	-	-	-	-	-	-	1,000
OTHER SCIENCES, NEC	-	-	-	-	-	-	-	10,000

1/ DATA SHOWN FOR FISCAL YEARS 1970-73 AND FISCAL YEARS 1974-76 REPRESENT OBLIGATIONS OF THE ATOMIC ENERGY COMMISSION AND THE ENERGY RESEARCH & DEVELOPMENT ADMINISTRATION, RESPECTIVELY.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF HEALTH & HUMAN SERVICES 1/

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	1,007,861	1,169,148	1,395,980	1,421,433	1,830,711	1,914,948	2,117,470	2,374,231
LIFE SCIENCES, TOTAL	833,858	988,663	1,159,573	1,181,278	1,521,078	1,618,442	1,775,180	1,980,810
BIOLOGICAL & AGRICULTURAL, TOTAL	391,951	455,158	544,396	568,008	747,537	778,739	864,785	985,402
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	422,978	491,518	588,893	585,754	738,152	790,638	881,609	953,629
CLINICAL MEDICAL	266,946	303,477	365,576	365,988	433,355	439,464	476,217	518,540
OTHER MEDICAL	156,032	188,041	223,317	219,768	304,797	351,174	385,392	435,089
LIFE SCIENCES, NEC	18,927	21,987	26,284	27,516	35,389	49,065	48,806	61,779
PSYCHOLOGY, TOTAL	44,637	53,927	60,320	53,253	77,434	61,240	70,804	70,405
BIOLOGICAL ASPECTS	15,727	17,769	19,894	17,353	34,585	21,818	27,140	27,594
SOCIAL ASPECTS	20,119	23,945	27,018	23,022	25,897	19,834	23,325	19,980
PSYCHOLOGICAL SCIENCES, NEC	8,791	12,213	13,408	12,878	16,972	19,588	20,139	22,851
PHYSICAL SCIENCES, TOTAL	27,120	29,508	29,501	30,158	46,698	41,490	45,180	51,185
CHEMISTRY	25,091	6,089	26,522	27,212	42,824	37,319	40,584	46,047
PHYSICS	2,029	21,044	2,979	2,944	3,872	4,171	4,596	5,118
PHYSICAL SCIENCES, NEC	-	2,375	-	-	-	-	-	-

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TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF HEALTH & HUMAN SERVICES 1/

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	3,441	5,148	5,853	5,594	7,903	8,114	8,350	10,158
MATHEMATICS	-	-	-	-	-	-	8,350	9,675
COMPUTER SCIENCES	-	-	-	-	-	-	-	483
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	-	-
ENGINEERING, TOTAL	12,431	14,891	19,911	22,195	27,474	26,384	28,959	38,620
CHEMICAL	-	-	29	989	1,441	-	-	-
CIVIL	-	31	-	-	-	-	-	-
ELECTRICAL	87	-	303	5	122	-	-	-
MECHANICAL	-	-	1,305	183	490	-	-	-
METALLURGY & MATERIALS	-	-	-	105	-	-	-	-
ENGINEERING, NEC	12,344	14,860	18,274	20,913	25,421	26,384	28,959	38,620
SOCIAL SCIENCES, TOTAL	61,540	67,851	84,676	89,504	98,900	99,192	127,620	152,583
ANTHROPOLOGY	2,244	3,649	4,642	2,611	4,520	4,299	3,811	2,040
ECONOMICS	5,098	4,933	5,700	3,600	24,502	23,368	17,931	15,324
POLITICAL SCIENCE	511	525	808	650	645	1,368	551	283
SOCIOLOGY	18,979	26,779	45,483	53,117	38,534	28,449	29,579	24,391
SOCIAL SCIENCES, NEC	34,708	31,965	28,065	29,526	30,699	41,708	75,748	110,545
HISTORY	-	21	47	35	220	572	-	-
LINGUISTICS	-	1,871	2,831	2,477	1,475	1,143	-	-
OTHER SOCIAL SCIENCES	34,708	30,073	25,187	27,014	29,004	39,993	-	-
OTHER SCIENCES, NEC	24,838	29,158	36,148	39,453	51,228	60,084	61,597	70,510

1/ DATA SHOWN FOR FISCAL YEARS 1970-78 REPRESENT OBLIGATIONS OF THE DEPARTMENT OF HEALTH, EDUCATION, & WELFARE MINUS DATA FOR THE OFFICE OF EDUCATION, THE NATIONAL INSTITUTE OF EDUCATION, AND THE OFFICE OF THE ASSISTANT SECRETARY FOR EDUCATION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

HHS: ALCOHOL, DRUG ABUSE, & MENTAL HEALTH ADMIN

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	-	-	-	122,191	155,616	139,425	136,617	151,966
LIFE SCIENCES, TOTAL	-	-	-	62,844	81,006	74,276	69,387	78,950
BIOLOGICAL & AGRICULTURAL, TOTAL	-	-	-	22,978	45,157	34,858	46,659	49,423
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	-	-	-	39,866	35,849	28,743	18,270	13,051
CLINICAL MEDICAL	-	-	-	39,866	25,218	18,705	12,819	10,206
OTHER MEDICAL	-	-	-	-	10,631	10,038	3,451	2,845
LIFE SCIENCES, NEC	-	-	-	-	-	10,675	6,458	14,476
PSYCHOLOGY, TOTAL	-	-	-	36,614	54,222	41,655	44,212	46,563
BIOLOGICAL ASPECTS	-	-	-	17,262	34,412	21,818	27,140	27,594
SOCIAL ASPECTS	-	-	-	19,352	19,810	18,560	17,072	18,969
PSYCHOLOGICAL SCIENCES, NEC	-	-	-	-	-	1,277	-	-
PHYSICAL SCIENCES, TOTAL	-	-	-	1,094	2,589	621	93	938
CHEMISTRY	-	-	-	1,094	2,589	621	93	938

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TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

HHS: ALCOHOL, DRUG ABUSE, & MENTAL HEALTH ADMIN

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	-	-	-	904	1,803	1,528	1,112	1,938
MATHEMATICS	-	-	-	-	-	-	1,112	1,638
COMPUTER SCIENCES	-	-	-	-	-	-	-	300
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	-	-
ENGINEERING, TOTAL	-	-	-	-	-	-	-	-
ENGINEERING, NEC	-	-	-	-	-	-	-	-
SOCIAL SCIENCES, TOTAL	-	-	-	20,735	15,996	17,575	20,884	20,827
ANTHROPOLOGY	-	-	-	2,309	1,144	2,524	3,811	2,040
ECONOMICS	-	-	-	-	-	114	237	236
POLITICAL SCIENCE	-	-	-	-	-	114	-	243
SOCIOLOGY	-	-	-	15,914	13,157	6,481	14,254	15,855
SOCIAL SCIENCES, NEC	-	-	-	2,512	1,695	8,382	2,382	2,653
HISTORY	-	-	-	35	220	572	-	-
LINGUISTICS	-	-	-	2,477	1,475	1,143	-	-
OTHER SOCIAL SCIENCES	-	-	-	-	-	6,847	-	-
OTHER SCIENCES, NEC	-	-	-	-	-	3,770	1,129	4,752

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

HHS: NATIONAL INSTITUTES OF HEALTH

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	780,444	913,489	1,099,350	1,132,050	1,489,640	1,604,217	1,787,692	1,988,658
LIFE SCIENCES, TOTAL	707,694	827,282	994,242	1,023,151	1,348,018	1,449,129	1,597,281	1,779,385
BIOLOGICAL & AGRICULTURAL, TOTAL	357,493	414,722	494,485	508,897	665,893	715,664	790,253	881,864
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	331,274	390,553	473,503	489,322	644,736	695,419	765,030	850,670
CLINICAL MEDICAL	175,242	213,701	267,868	281,132	372,528	404,526	441,909	488,062
OTHER MEDICAL	156,032	176,852	205,635	208,190	272,208	290,893	323,121	362,608
LIFE SCIENCES, NEC	18,927	21,987	26,254	26,932	35,389	38,046	41,998	46,851
PSYCHOLOGY, TOTAL	8,693	10,261	12,456	12,878	16,972	18,311	20,139	22,388
PSYCHOLOGICAL SCIENCES, NEC	8,693	10,261	12,456	12,878	16,972	18,311	20,139	22,388
PHYSICAL SCIENCES, TOTAL	20,073	23,419	28,089	28,878	37,976	40,889	45,087	50,227
CHEMISTRY	18,044	-	25,231	25,934	34,104	36,698	40,471	45,109
PHYSICS	2,029	21,044	2,858	2,944	3,872	4,171	4,596	5,118
PHYSICAL SCIENCES, NEC	-	2,375	-	-	-	-	-	-

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TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

HHS: NATIONAL INSTITUTES OF HEALTH

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	3,092	3,664	4,485	4,625	6,100	6,588	7,238	8,039
MATHEMATICS	-	-	-	-	-	-	7,238	8,039
ENGINEERING, TOTAL	12,199	14,532	17,804	18,491	24,409	28,384	28,959	32,131
ENGINEERING, NEC	12,199	14,532	17,804	18,491	24,409	28,384	28,959	32,131
SOCIAL SCIENCES, TOTAL	4,498	5,427	6,734	7,038	9,307	10,088	11,040	12,218
SOCIAL SCIENCES, NEC	4,498	5,427	6,734	7,038	9,307	10,088	11,040	12,218
OTHER SOCIAL SCIENCES	4,498	5,427	6,734	7,038	9,307	10,088	-	-
OTHER SCIENCES, NEC	24,195	28,924	35,580	38,991	48,858	52,852	57,988	64,270

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF THE INTERIOR

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	120,590	136,856	147,313	160,161	143,498	234,053	259,458	255,942
LIFE SCIENCES, TOTAL	20,716	24,217	21,845	24,585	25,755	48,871	49,924	58,678
BIOLOGICAL & AGRICULTURAL, TOTAL	20,682	24,186	21,564	24,485	25,678	48,772	49,848	58,589
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	-	-	-	53	52	66	50	58
OTHER MEDICAL	-	-	-	53	52	66	50	58
LIFE SCIENCES, NEC	34	31	81	27	25	33	26	51
PSYCHOLOGY, TOTAL	58	66	185	254	244	315	243	320
BIOLOGICAL ASPECTS	-	-	160	-	-	-	-	-
SOCIAL ASPECTS	58	66	25	254	244	315	243	320
PSYCHOLOGICAL SCIENCES, NEC	-	-	-	-	-	-	-	-
PHYSICAL SCIENCES, TOTAL	13,391	13,483	17,057	15,954	12,783	9,032	9,857	12,675
ASTRONOMY	-	-	-	-	-	-	31	27
CHEMISTRY	12,081	12,090	13,300	12,399	9,214	7,406	8,510	10,302
PHYSICS	1,310	1,393	3,757	3,555	3,569	1,626	1,316	1,548
PHYSICAL SCIENCES, NEC	-	-	-	-	-	-	-	800
ENVIRONMENTAL SCIENCES, TOTAL	43,524	48,131	56,191	66,701	65,993	108,547	111,227	119,395
ATMOSPHERIC SCIENCES	4,910	6,688	6,898	6,710	4,183	4,375	4,937	6,852
GEOLOGICAL SCIENCES	35,783	38,532	45,269	55,098	56,802	89,652	90,219	96,075
OCEANOGRAPHY	2,798	2,873	3,437	4,252	4,392	13,338	15,117	13,519
ENVIRONMENTAL SCIENCES, NEC	33	38	587	641	616	1,182	954	3,149

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TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF THE INTERIOR

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	1,321	1,639	1,693	1,371	1,395	2,378	2,733	3,156
MATHEMATICS	-	-	-	-	-	-	1,780	1,845
COMPUTER SCIENCES	-	-	-	-	-	-	908	1,204
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	65	107
ENGINEERING, TOTAL	39,892	46,391	45,180	47,496	33,705	57,892	78,319	56,022
ASTRONAUTICAL	-	-	-	-	-	-	-	-
CHEMICAL	14,315	14,820	15,930	16,882	5,652	8,584	12,382	6,355
CIVIL	5,595	6,185	7,921	7,974	8,115	10,257	13,627	8,881
ELECTRICAL	2,428	3,537	2,161	2,306	1,669	4,087	5,610	1,115
MECHANICAL	1,577	2,864	2,274	2,273	1,684	4,719	6,775	7,612
METALLURGY & MATERIALS	14,464	17,208	15,782	15,352	15,861	29,283	39,171	30,735
ENGINEERING, NEC	1,513	1,777	1,112	2,709	744	962	754	1,324
SOCIAL SCIENCES, TOTAL	1,494	2,706	3,549	3,139	2,989	5,755	5,930	4,928
ANTHROPOLOGY	-	954	1,112	1,013	1,047	3,179	3,680	2,610
ECONOMICS	951	1,034	1,199	1,061	782	917	720	912
POLITICAL SCIENCE	186	306	352	587	565	730	566	588
SOCIOLOGY	201	227	323	254	383	576	560	469
SOCIAL SCIENCES, NEC	156	185	563	224	212	353	404	347
HISTORY	10	9	52	-	-	64	-	-
OTHER SOCIAL SCIENCES	146	176	511	224	212	289	-	-
OTHER SCIENCES, NEC	194	223	1,813	681	654	1,263	1,225	770

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

ENVIRONMENTAL PROTECTION AGENCY

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	52,984	53,818	51,068	74,287	98,294	141,711	155,395	205,252
LIFE SCIENCES, TOTAL	19,311	17,222	15,148	21,200	28,611	38,300	51,280	78,782
BIOLOGICAL & AGRICULTURAL, TOTAL	12,484	13,778	11,555	17,797	25,091	33,500	45,639	72,250
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	6,827	3,444	3,593	3,403	3,520	4,800	5,641	4,512
CLINICAL MEDICAL	660	344	350	-	-	-	-	-
OTHER MEDICAL	6,167	3,100	3,243	3,403	3,520	4,800	5,641	4,512
PSYCHOLOGY, TOTAL	8	45	60	-	-	-	-	-
BIOLOGICAL ASPECTS	8	45	35	-	-	-	-	-
SOCIAL ASPECTS	-	-	25	-	-	-	-	-
PHYSICAL SCIENCES, TOTAL	8,430	8,610	6,580	25,257	27,658	32,600	49,726	50,155
CHEMISTRY	5,421	6,027	5,620	20,057	24,058	25,200	45,747	46,035
PHYSICS	2,073	2,583	960	5,200	3,600	7,400	3,979	4,120
PHYSICAL SCIENCES, NEC	938	-	-	-	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	4,801	5,350	4,770	3,775	5,090	7,000	4,682	6,205
ATMOSPHERIC SCIENCES	1,201	3,470	2,985	2,080	3,095	3,900	793	940
GEOLOGICAL SCIENCES	36	80	185	670	825	1,700	2,191	3,590
OCEANOGRAPHY	1,716	1,800	1,600	1,025	1,170	1,400	1,678	1,675
ENVIRONMENTAL SCIENCES, NEC	1,848	-	-	-	-	-	-	-

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TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

ENVIRONMENTAL PROTECTION AGENCY

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	193	480	270	1,485	1,575	2,300	2,330	3,100
MATHEMATICS	-	-	-	-	-	-	466	2,370
COMPUTER SCIENCES	-	-	-	-	-	-	1,864	730
ENGINEERING, TOTAL	19,718	21,329	23,210	19,800	32,480	55,871	45,497	65,715
ASTRONAUTICAL	219	175	150	-	-	-	-	-
CHEMICAL	6,747	7,500	7,185	5,880	9,480	14,800	17,288	25,212
CIVIL	7,870	7,234	9,455	6,880	12,800	19,800	17,750	24,890
ELECTRICAL	197	220	145	1,980	3,100	4,471	5,232	7,814
MECHANICAL	4,685	6,200	6,275	4,900	7,100	17,000	5,227	7,799
SOCIAL SCIENCES, TOTAL	523	802	1,030	2,970	900	5,640	1,900	3,315
ECONOMICS	379	615	772	1,782	700	4,400	1,520	2,395
SOCIOLOGY	63	187	258	1,188	200	1,240	380	920
SOCIAL SCIENCES, NEC	81	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	81	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	1,030,217	922,688	764,592	793,920	845,667	935,139	1,222,841	1,206,076
LIFE SCIENCES, TOTAL	52,480	53,396	53,004	54,581	25,537	18,000	25,227	29,058
BIOLOGICAL & AGRICULTURAL, TOTAL	38,446	29,436	27,313	31,685	15,970	7,693	8,678	15,268
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	3,787	1,665	8,383	10,627	8,183	8,748	15,285	12,218
CLINICAL MEDICAL	3,787	-	-	1,288	959	1,150	1,147	1,250
OTHER MEDICAL	-	1,665	8,383	9,341	7,224	7,598	14,138	10,968
LIFE SCIENCES, NEC	10,247	22,295	17,308	12,289	1,384	1,561	1,288	1,570
PSYCHOLOGY, TOTAL	2,307	1,188	6,013	5,913	7,749	21,216	10,662	11,651
BIOLOGICAL ASPECTS	2,307	1,188	3,341	2,982	1,602	2,549	-	10,443
SOCIAL ASPECTS	-	-	-	328	5,670	8,979	519	567
PSYCHOLOGICAL SCIENCES, NEC	-	-	2,672	2,603	477	9,688	10,143	641
PHYSICAL SCIENCES, TOTAL	171,388	166,001	185,763	168,837	170,711	211,751	197,054	284,158
ASTRONOMY	100,875	90,688	89,859	82,020	91,564	122,002	116,575	140,702
CHEMISTRY	11,618	8,274	18,436	19,322	9,890	7,951	5,252	11,750
PHYSICS	58,893	67,039	77,468	64,558	68,119	71,754	66,932	99,046
PHYSICAL SCIENCES, NEC	-	-	-	2,937	3,138	10,044	8,295	12,658
ENVIRONMENTAL SCIENCES, TOTAL	198,720	202,913	173,443	205,828	231,559	251,311	219,039	305,592
ATMOSPHERIC SCIENCES	126,163	132,715	92,943	97,380	124,724	120,715	102,725	145,989
GEOLOGICAL SCIENCES	66,138	61,722	59,356	62,426	39,215	35,936	37,507	54,034
OCEANOGRAPHY	6,419	8,476	9,086	14,507	16,222	24,405	20,843	31,973
ENVIRONMENTAL SCIENCES, NEC	-	-	12,058	31,535	51,398	70,255	57,964	73,596

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TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	1,318	723	-	1,254	1,129	1,718	4,078	25,917
MATHEMATICS	-	-	-	-	-	-	-	22,780
COMPUTER SCIENCES	-	-	-	-	-	-	-	3,137
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	4,078	-
ENGINEERING, TOTAL	603,316	493,427	344,271	312,231	407,075	422,708	755,490	566,123
AERONAUTICAL	243,188	198,798	119,885	135,376	226,215	225,138	411,980	272,141
ASTRONAUTICAL	154,414	134,600	47,481	29,198	80,853	83,189	183,618	130,985
CHEMICAL	36,405	31,279	12,324	12,319	281	2,883	9,138	11,744
CIVIL	126	-	-	100	854	313	1,241	1,716
ELECTRICAL	1,097	48,118	58,103	43,104	22,928	21,611	48,815	40,486
MECHANICAL	756	30,108	48,157	46,234	5,454	10,256	28,971	22,873
METALLURGY & MATERIALS	1,345	15,150	46,446	38,509	49,614	46,154	74,293	64,458
ENGINEERING, NEC	61,985	35,376	11,875	7,391	20,876	32,984	17,438	21,720
SOCIAL SCIENCES, TOTAL	[illegible]	-	884	1,911	540	981	1,783	615
ECONOMICS	34	-	-	85	504	598	1,648	539
POLITICAL SCIENCE	-	-	-	50	30	235	95	30
SOCIOLOGY	-	-	-	20	-	-	-	-
SOCIAL SCIENCES, NEC	658		884	1,776	6	128	40	46
HISTORY	-		-	-	6	72	-	-
OTHER SOCIAL SCIENCES	658		884	1,776	-	56	-	-
OTHER SCIENCES, NEC	-	b.	1,214	43,385	1,387	7 74	9,508	2,988

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

NATIONAL SCIENCE FOUNDATION

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	274,789	318,288	427,270	483,953	520,258	570,015	595,778	688,300
LIFE SCIENCES, TOTAL	60,119	63,322	78,143	80,253	90,727	97,799	104,352	113,322
BIOLOGICAL & AGRICULTURAL, TOTAL	54,423	60,403	66,647	70,782	90,499	97,799	104,205	112,120
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	5,330	-	7	25	228	-	-	1,122
CLINICAL MEDICAL	4,120	-	7	25	200	-	-	-
OTHER MEDICAL	1,210	-	-	-	28	-	-	1,122
LIFE SCIENCES, NEC	366	2,919	11,489	9,446	-	-	147	80
PSYCHOLOGY, TOTAL	7,720	5,429	7,051	8,441	8,535	9,112	8,249	11,381
BIOLOGICAL ASPECTS	4,300	3,123	4,221	4,007	4,348	6,612	5,697	8,368
SOCIAL ASPECTS	1,460	2,306	2,656	2,434	2,187	2,500	2,552	3,013
PSYCHOLOGICAL SCIENCES, NEC	1,960	-	174	-	-	-	-	-
PHYSICAL SCIENCES, TOTAL	76,276	79,796	119,088	117,893	124,172	148,947	148,044	184,180
ASTRONOMY	19,922	23,236	25,808	27,080	30,283	29,093	31,754	41,585
CHEMISTRY	22,241	23,131	30,851	31,140	36,790	49,792	43,080	57,658
PHYSICS	33,785	33,429	50,085	53,889	57,099	70,062	73,210	84,886
PHYSICAL SCIENCES, NEC	328	-	12,482	5,784	-	-	-	33
ENVIRONMENTAL SCIENCES, TOTAL	59,270	77,883	102,347	101,298	124,919	135,736	130,078	182,360
ATMOSPHERIC SCIENCES	25,398	32,979	37,951	43,669	50,769	51,734	50,955	84,200
GEOLOGICAL SCIENCES	11,770	10,128	12,107	19,836	35,738	40,433	37,578	54,476
OCEANOGRAPHY	21,055	32,778	45,441	24,564	38,412	43,557	41,233	63,682
ENVIRONMENTAL SCIENCES, NEC	1,047	2,000	6,848	13,227	-	12	314	22

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TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

NATIONAL SCIENCE FOUNDATION

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	17,161	26,467	26,953	22,439	23,689	28,825	34,691	42,264
MATHEMATICS	-	-	-	-	-	-	18,487	21,873
COMPUTER SCIENCES	-	-	-	-	-	-	16,029	20,391
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	175	-
ENGINEERING, TOTAL	25,927	35,528	50,518	47,189	65,180	87,873	77,418	88,135
AERONAUTICAL	520	1,164	1,981	209	684	22	-	708
ASTRONAUTICAL	-	-	24	-	56	-	-	-
CHEMICAL	4,640	6,931	5,090	5,494	6,627	11,292	11,494	10,059
CIVIL	3,116	5,108	3,716	6,964	5,841	4,669	4,989	8,248
ELECTRICAL	5,983	6,980	9,484	11,226	10,432	11,703	15,503	20,144
MECHANICAL	5,299	5,563	5,136	8,455	7,886	7,355	7,674	7,390
METALLURGY & MATERIALS	3,070	7,636	9,246	10,296	16,394	18,816	17,467	19,264
ENGINEERING, NEC	3,299	2,146	15,841	4,545	17,260	34,016	20,291	20,322
SOCIAL SCIENCES, TOTAL	19,582	26,453	36,464	36,876	35,531	40,319	56,321	54,016
ANTHROPOLOGY	3,227	3,999	4,118	3,886	3,913	3,659	3,489	3,924
ECONOMICS	5,133	5,981	6,672	7,066	6,270	7,796	7,884	10,204
POLITICAL SCIENCE	2,505	1,176	1,751	1,640	1,500	1,547	2,326	2,468
SOCIOLOGY	1,711	2,861	3,319	2,883	2,367	2,777	2,967	3,810
SOCIAL SCIENCES, NEC	7,006	12,436	20,604	21,401	21,481	24,540	39,655	33,610
HISTORY	924	733	876	898	920	929	-	-
LINGUISTICS	1,296	137	94	1,253	1,300	1,500	-	-
OTHER SOCIAL SCIENCES	4,786	11,566	19,634	19,250	19,261	22,111	-	-
OTHER SCIENCES, NEC	8,734	3,408	6,708	51,566	49,503	21,404	36,623	14,662

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

ALL OTHER DEPARTMENTS AND AGENCIES

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	285,301	378,297	359,234	322,551	345,405	363,042	398,475	477,054
LIFE SCIENCES, TOTAL	81,467	79,478	85,056	104,204	109,395	112,724	101,801	120,675
BIOLOGICAL & AGRICULTURAL, TOTAL	35,595	37,424	38,937	44,495	39,043	44,713	42,673	44,050
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	44,221	41,474	45,476	59,709	69,254	67,054	58,058	74,362
CLINICAL MEDICAL	40,855	30,822	34,001	42,458	51,866	47,535	38,097	50,945
OTHER MEDICAL	3,366	10,652	11,475	17,251	17,388	19,519	19,981	23,417
LIFE SCIENCES, NEC	1,651	580	643	-	1,098	957	870	2,263
PSYCHOLOGY, TOTAL	21,798	17,397	13,323	6,691	7,030	7,585	13,670	12,153
BIOLOGICAL ASPECTS	4,065	3,818	4,200	3,620	4,179	4,285	8,580	9,534
SOCIAL ASPECTS	17,432	13,516	9,123	3,071	2,807	3,259	5,110	2,619
PSYCHOLOGICAL SCIENCES, NEC	301	65	-	-	44	61	-	-
PHYSICAL SCIENCES, TOTAL	7,477	6,715	6,861	5,932	9,085	6,397	7,680	10,946
ASTRONOMY	3,215	2,723	3,757	3,897	3,966	4,248	4,408	5,007
CHEMISTRY	2,186	2,343	1,360	1,477	2,390	1,841	2,175	4,729
PHYSICS	1,916	1,429	1,458	289	951	61	170	470
PHYSICAL SCIENCES, NEC	160	220	286	269	1,778	247	927	740
ENVIRONMENTAL SCIENCES, TOTAL	4,848	6,523	11,800	7,569	9,362	9,482	5,298	11,011
ATMOSPHERIC SCIENCES	597	807	3,098	1,742	3,285	3,145	129	995
GEOLOGICAL SCIENCES	2,472	4,537	2,817	2,237	2,302	1,732	4,245	1,973
OCEANOGRAPHY	294	395	273	552	437	408	756	1,045
ENVIRONMENTAL SCIENCES, NEC	1,485	784	5,612	3,038	3,338	4,199	168	8,998

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TABLE 1A. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

ALL OTHER DEPARTMENTS AND AGENCIES

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	2,507	909	7,548	4,855	667	337	1,207	1,533
MATHEMATICS	-	-	-	-	-	-	582	378
COMPUTER SCIENCES	-	-	-	-	-	-	387	433
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	238	722
ENGINEERING, TOTAL	81,322	100,588	94,727	78,582	111,884	130,805	136,677	186,701
AERONAUTICAL	8,027	12,252	1,048	2,650	3,981	3,838	1,787	2,435
ASTRONAUTICAL	243	877	781	592	483	430	382	381
CHEMICAL	2,417	3,294	2,701	1,977	1,504	1,988	1,695	174
CIVIL	32,273	29,898	67,802	51,312	40,625	37,187	21,957	34,751
ELECTRICAL	9,343	13,064	7,418	10,435	9,260	8,825	3,382	5,130
MECHANICAL	21,034	28,197	3,294	5,125	5,788	2,751	2,710	8,443
METALLURGY & MATERIALS	2,641	3,201	2,455	548	898	582	472	798
ENGINEERING, NEC	5,344	10,203	9,230	5,943	49,345	77,224	104,312	134,591
SOCIAL SCIENCES, TOTAL	78,821	158,389	125,213	108,542	93,587	85,983	128,408	133,237
ANTHROPOLOGY	3,171	2,634	2,892	4,292	2,978	2,713	2,575	3,805
ECONOMICS	23,179	19,963	22,614	27,617	38,544	32,893	43,198	44,851
POLITICAL SCIENCE	2,068	1,355	578	2,489	5,329	6,466	2,810	3,726
SOCIOLOGY	13,729	71,132	63,212	38,487	14,805	18,195	15,546	16,786
SOCIAL SCIENCES, NEC	36,674	83,305	35,917	35,657	33,931	25,698	62,279	64,069
HISTORY	3,548	3,235	3,323	3,688	4,786	4,956	-	-
LINGUISTICS	305	325	295	449	52	-	-	-
OTHER SOCIAL SCIENCES	32,821	59,745	32,299	31,520	29,093	20,740	-	-
OTHER SCIENCES, NEC	7,081	8,300	14,708	6,176	4,415	9,749	3,936	798

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

TOTAL, ALL AGENCIES

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	6,729,708	7,619,332	8,514,115	9,606,758	10,535,005	11,597,378	12,359,294	13,533,823
LIFE SCIENCES, TOTAL	2,455,195	2,649,698	3,007,749	3,427,133	3,848,281	4,192,335	4,435,942	4,714,349
BIOLOGICAL & AGRICULTURAL, TOTAL	1,452,179	1,535,798	1,777,587	2,024,018	2,320,322	2,507,558	2,689,186	2,882,838
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	1,488,450	1,702,249	1,830,611	1,951,582	2,102,288
ENVIRONMENTAL BIOLOGY	-	-	-	184,873	216,553	229,741	248,698	254,188
AGRICULTURAL	-	-	-	350,695	401,520	447,206	488,926	526,362
MEDICAL SCIENCES, TOTAL	951,095	1,042,935	1,138,780	1,287,447	1,380,615	1,536,888	1,599,879	1,684,463
CLINICAL MEDICAL	550,563	586,666	634,377	-	-	-	-	-
OTHER MEDICAL	400,532	456,269	504,383	-	-	-	-	-
LIFE SCIENCES, NEC	51,921	70,963	91,422	115,668	147,344	147,889	146,877	147,048
PSYCHOLOGY, TOTAL	139,192	143,996	158,201	193,243	197,384	199,009	205,965	228,217
BIOLOGICAL ASPECTS	37,442	43,816	57,613	67,831	58,767	59,882	61,099	62,727
SOCIAL ASPECTS	57,069	54,920	54,508	65,392	83,628	94,805	91,314	102,608
PSYCHOLOGICAL SCIENCES, NEC	44,681	45,260	44,080	60,020	56,989	44,322	53,552	62,882
PHYSICAL SCIENCES, TOTAL	1,096,644	1,258,892	1,530,171	1,845,647	1,792,554	2,000,612	2,233,827	2,644,129
ASTRONOMY	168,319	183,093	197,305	213,601	284,429	285,671	258,038	296,427
CHEMISTRY	285,554	328,444	370,722	404,993	443,618	454,536	513,187	570,253
PHYSICS	594,954	709,263	888,260	942,438	1,022,741	1,182,548	1,373,285	1,657,825
PHYSICAL SCIENCES, NEC	47,817	58,092	95,884	84,617	41,766	77,859	89,339	119,624
ENVIRONMENTAL SCIENCES, TOTAL	727,289	789,284	906,001	1,024,588	1,100,984	1,280,957	1,275,711	1,376,988
ATMOSPHERIC SCIENCES	302,248	289,312	318,366	319,194	348,716	409,513	395,239	436,389
GEOLOGICAL SCIENCES	191,713	227,162	289,430	316,380	358,667	401,755	432,896	473,841
OCEANOGRAPHY	143,792	183,987	195,894	223,837	220,479	282,124	280,058	274,419
ENVIRONMENTAL SCIENCES, NEC	89,516	88,843	122,311	165,175	173,122	187,565	187,518	192,337

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TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

TOTAL, ALL AGENCIES

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	125,280	157,794	195,880	216,280	210,301	240,943	284,058	321,781
MATHEMATICS	-	69,871	96,414	93,352	84,179	90,926	102,942	120,409
COMPUTER SCIENCES	-	73,583	89,355	107,267	108,266	128,593	145,808	153,405
MATHEMATICS & COMPUTER SCIENCES, NEC	-	14,340	10,111	15,661	19,856	21,424	35,308	47,967
ENGINEERING, TOTAL	1,717,777	2,068,655	2,112,917	2,404,595	2,571,630	2,830,131	3,027,107	3,375,822
AERONAUTICAL	345,070	526,827	408,847	466,285	624,897	708,134	710,747	759,455
ASTRONAUTICAL	99,080	179,386	158,990	165,138	251,140	302,325	298,848	315,631
CHEMICAL	83,863	88,270	104,801	149,431	114,291	96,335	180,916	145,020
CIVIL	125,596	105,905	117,354	142,418	125,006	158,781	147,080	152,162
ELECTRICAL	286,968	297,685	382,727	432,627	417,865	517,142	576,252	711,469
MECHANICAL	162,480	185,680	199,173	234,146	195,876	207,978	200,047	227,377
METALLURGY & MATERIALS	221,846	274,909	293,833	285,973	249,346	238,184	283,597	339,584
ENGINEERING, NEC	392,874	409,993	447,192	528,577	593,209	603,252	689,640	725,124
SOCIAL SCIENCES, TOTAL	301,816	392,456	428,125	489,486	527,310	523,811	517,328	485,227
ANTHROPOLOGY	13,850	13,588	12,379	19,526	17,343	17,179	16,301	18,596
ECONOMICS	126,238	137,577	142,854	163,180	181,915	192,771	201,758	190,692
POLITICAL SCIENCE	11,693	7,239	8,479	8,816	13,916	12,170	10,401	5,846
SOCIOLOGY	54,907	53,646	52,157	60,333	64,523	71,435	69,985	61,111
SOCIAL SCIENCES, NEC	95,128	180,406	210,256	237,631	249,613	230,256	218,883	208,982
HISTORY	6,955	-	-	-	-	-	-	-
LINGUISTICS	3,049	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	85,124	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	186,555	178,559	179,071	205,808	288,581	349,580	379,358	387,332

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF AGRICULTURE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	401,944	442,224	524,020	594,484	631,920	657,435	738,694	825,731
LIFE SCIENCES, TOTAL	251,947	279,279	334,176	403,820	436,301	457,817	513,616	577,830
BIOLOGICAL & AGRICULTURAL, TOTAL	247,370	274,148	328,417	393,890	428,541	449,804	504,821	567,936
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	51,044	64,535	61,784	68,944	77,787
ENVIRONMENTAL BIOLOGY	-	-	-	45,118	74,545	67,759	75,286	82,837
AGRICULTURAL	-	-	-	297,728	289,461	320,261	360,591	407,312
MEDICAL SCIENCES, TOTAL	4,577	5,131	5,759	6,445	7,760	8,013	8,795	9,894
CLINICAL MEDICAL	4,577	5,131	5,759	-	-	-	-	-
OTHER MEDICAL	-	-	-	-	-	-	-	-
LIFE SCIENCES, NEC	-	-	-	3,485	-	-	-	-
PSYCHOLOGY, TOTAL	-	75	85	101	102	108	117	127
SOCIAL ASPECTS	-	75	85	101	102	108	117	127
PHYSICAL SCIENCES, TOTAL	49,792	53,126	63,434	52,104	50,645	52,633	59,933	66,332
CHEMISTRY	42,130	44,932	53,796	47,843	47,204	48,907	55,717	61,685
PHYSICS	7,662	8,194	9,638	4,261	3,441	3,726	4,216	4,647
PHYSICAL SCIENCES, NEC	-	-	-	-	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	11,601	12,497	14,104	14,625	13,644	13,772	15,069	16,598
ATMOSPHERIC SCIENCES	5,163	5,565	4,935	5,810	5,057	4,922	5,360	5,929
GEOLOGICAL SCIENCES	977	4,981	6,898	8,815	8,587	8,850	9,709	10,667
ENVIRONMENTAL SCIENCES, NEC	5,461	1,951	2,271	-	-	-	-	-

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TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF AGRICULTURE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	2,825	3,807	3,845	4,713	4,072	2,751	3,054	3,359
MATHEMATICS	-	3,807	3,845	4,713	4,072	2,751	3,054	3,359
ENGINEERING, TOTAL	35,073	37,094	44,190	44,599	45,453	48,627	51,880	57,383
CHEMICAL	3,181	3,049	4,183	3,858	4,793	4,457	4,908	5,407
CIVIL	4,814	5,205	6,457	6,503	4,384	4,318	4,807	5,298
ELECTRICAL	224	298	380	257	422	329	377	417
MECHANICAL	2,381	2,575	2,847	2,421	3,354	3,762	4,151	4,588
ENGINEERING, NEC	24,473	25,967	30,383	31,762	32,500	33,761	37,637	41,677
SOCIAL SCIENCES, TOTAL	50,700	58,338	84,186	74,522	81,703	83,729	95,025	104,124
ANTHROPOLOGY	-	-	-	15	-	19	21	24
ECONOMICS	47,605	53,099	80,016	68,317	75,138	78,582	87,031	95,352
POLITICAL SCIENCE	-	-	-	-	71	72	80	87
SOCIOLOGY	1,946	2,649	3,531	4,883	5,302	5,921	6,823	7,259
SOCIAL SCIENCES, NEC	1,149	590	639	1,307	1,192	1,135	1,270	1,402
HISTORY	362	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	787	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	8	8	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF COMMERCE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	144,420	155,713	176,129	192,775	219,458	254,433	257,383	228,686
LIFE SCIENCES, TOTAL	40,980	41,920	49,950	48,347	53,899	53,592	61,660	44,924
BIOLOGICAL & AGRICULTURAL, TOTAL	40,980	41,920	49,790	48,347	53,899	53,592	61,660	44,924
AGRICULTURAL	-	-	-	48,347	53,899	53,592	61,660	44,924
MEDICAL SCIENCES, TOTAL	-	-	160	-	-	-	-	-
OTHER MEDICAL	-	-	160	-	-	-	-	-
PSYCHOLOGY, TOTAL	151	209	203	263	232	223	262	261
BIOLOGICAL ASPECTS	-	-	-	-	-	-	-	-
SOCIAL ASPECTS	151	209	203	263	232	223	262	261
PHYSICAL SCIENCES, TOTAL	20,554	22,811	27,799	32,507	35,519	38,698	42,272	45,600
ASTRONOMY	748	666	530	1,458	634	645	534	545
CHEMISTRY	6,243	7,137	9,545	8,198	8,944	9,492	10,011	11,079
PHYSICS	13,563	15,008	17,724	22,851	25,889	28,486	31,727	33,976
PHYSICAL SCIENCES, NEC	-	-	-	-	52	75	-	-
ENVIRONMENTAL SCIENCES, TOTAL	53,010	56,872	61,652	71,182	79,617	105,590	89,774	77,438
ATMOSPHERIC SCIENCES	34,916	36,885	37,478	34,931	36,017	40,533	41,841	40,658
GEOLOGICAL SCIENCES	1,355	1,339	1,146	1,527	1,797	1,880	1,516	5,314
OCEANOGRAPHY	16,739	18,668	23,028	34,379	41,720	63,140	46,417	31,468
ENVIRONMENTAL SCIENCES, NEC	-	-	-	345	83	37	-	-

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TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF COMMERCE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	2,314	3,900	4,903	5,273	6,591	8,990	9,944	11,582
MATHEMATICS	-	1,870	1,994	4,226	5,146	5,410	6,101	6,505
COMPUTER SCIENCES	-	2,030	2,909	1,047	1,445	2,409	2,482	3,887
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	1,171	1,361	1,390
ENGINEERING, TOTAL	18,941	18,117	23,852	24,838	32,245	40,572	46,219	45,807
AERONAUTICAL	-	-	-	20	29	85	-	-
CHEMICAL	80	62	492	389	1,017	720	1,001	1,217
CIVIL	5,686	5,599	5,497	6,284	9,702	14,084	11,871	12,139
ELECTRICAL	3,025	3,288	4,098	4,634	7,787	13,112	14,841	13,822
MECHANICAL	923	872	1,389	1,938	3,514	1,589	2,130	3,834
METALLURGY & MATERIALS	1,979	2,124	2,410	2,295	2,778	5,338	6,294	9,595
ENGINEERING, NEC	7,248	6,192	9,966	9,278	7,420	5,644	10,082	5,400
SOCIAL SCIENCES, TOTAL	7,750	8,634	7,028	10,323	11,243	6,735	7,212	3,034
ECONOMICS	7,593	8,414	6,810	10,114	10,963	6,486	5,545	2,754
POLITICAL SCIENCE	-	-	-	-	140	89	1,059	89
SOCIOLOGY	157	220	218	209	140	160	191	191
SOCIAL SCIENCES, NEC	-	-	-	-	-	-	417	-
OTHER SCIENCES, NEC	720	3,250	744	42	112	33	40	40

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF DEFENSE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	1,431,007	1,527,481	1,715,845	1,824,058	2,014,098	2,261,769	2,584,004	3,148,166
LIFE SCIENCES, TOTAL	99,411	118,007	129,457	137,805	152,829	149,075	171,588	198,841
BIOLOGICAL & AGRICULTURAL, TOTAL	32,808	28,948	50,470	44,057	54,042	62,142	70,339	84,994
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	39,521	48,184	54,693	62,007	74,466
ENVIRONMENTAL BIOLOGY	-	-	-	4,356	5,683	7,223	8,099	10,271
AGRICULTURAL	-	-	-	180	175	226	233	257
MEDICAL SCIENCES, TOTAL	68,298	88,638	77,912	89,563	95,259	83,015	96,959	106,354
CLINICAL MEDICAL	48,921	62,117	55,783	-	-	-	-	-
OTHER MEDICAL	17,377	26,521	22,129	-	-	-	-	-
LIFE SCIENCES, NEC	305	423	1,075	3,985	3,528	3,918	4,290	5,493
PSYCHOLOGY, TOTAL	39,573	40,284	50,003	54,091	60,775	63,552	67,985	87,884
BIOLOGICAL ASPECTS	2,198	2,419	1,874	1,947	1,201	264	540	408
SOCIAL ASPECTS	22,031	22,887	27,741	29,676	46,922	55,047	58,482	72,161
PSYCHOLOGICAL SCIENCES, NEC	15,344	14,978	20,588	22,468	12,652	8,241	10,943	15,295
PHYSICAL SCIENCES, TOTAL	245,107	249,993	312,915	323,907	358,403	410,530	508,634	671,814
ASTRONOMY	12,228	9,659	9,454	10,509	12,789	13,194	14,479	16,569
CHEMISTRY	44,030	54,582	54,560	63,354	88,098	78,221	89,335	107,746
PHYSICS	153,854	141,621	174,468	180,333	244,528	269,385	341,564	467,089
PHYSICAL SCIENCES, NEC	34,995	44,151	74,433	69,711	10,988	49,730	61,256	80,430
ENVIRONMENTAL SCIENCES, TOTAL	133,775	154,439	120,917	138,683	149,817	181,847	182,907	229,119
ATMOSPHERIC SCIENCES	69,470	72,384	43,744	47,621	57,235	79,916	80,189	92,218
GEOLOGICAL SCIENCES	16,972	24,518	22,849	23,258	21,957	29,886	34,133	48,955
OCEANOGRAPHY	38,926	51,885	47,638	53,607	53,715	58,299	55,971	70,607
ENVIRONMENTAL SCIENCES, NEC	8,407	5,652	6,686	14,199	16,910	15,746	12,614	17,341

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TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF DEFENSE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	70,917	90,748	94,185	102,332	113,423	137,828	175,390	194,989
MATHEMATICS	-	30,687	27,209	28,118	28,781	31,380	38,009	44,498
COMPUTER SCIENCES	-	50,275	57,674	61,000	70,663	89,729	106,033	108,982
MATHEMATICS & COMPUTER SCIENCES, NEC	-	9,784	9,282	13,214	13,979	16,739	31,348	43,491
ENGINEERING, TOTAL	770,833	808,387	928,212	981,792	1,057,530	1,165,226	1,310,784	1,578,278
AERONAUTICAL	116,072	113,080	133,563	142,747	189,052	214,221	236,189	282,859
ASTRONAUTICAL	15,481	15,386	27,624	29,729	35,930	67,813	64,634	67,158
CHEMICAL	16,328	21,288	31,352	29,011	33,291	24,049	51,082	38,944
CIVIL	25,870	34,537	23,214	23,435	27,281	30,149	32,050	45,598
ELECTRICAL	229,166	215,477	301,178	345,145	383,190	442,299	497,018	631,711
MECHANICAL	109,885	128,054	138,068	157,700	141,635	122,378	120,715	142,394
METALLURGY & MATERIALS	78,124	81,779	99,822	88,910	92,815	104,171	131,887	168,250
ENGINEERING, NEC	179,907	198,786	173,593	165,115	174,356	160,146	177,209	203,368
SOCIAL SCIENCES, TOTAL	5,536	5,213	3,555	5,933	8,442	5,120	5,285	5,119
ANTHROPOLOGY	-	33	-	-	-	-	-	-
ECONOMICS	1,068	854	252	1,127	100	101	140	154
POLITICAL SCIENCE	1,347	891	1,404	2,003	1,940	1,245	778	498
SOCIOLOGY	1,567	1,745	1,899	2,803	2,381	2,447	3,548	2,867
SOCIAL SCIENCES, NEC	1,554	1,690	-	-	4,021	1,327	801	1,602
LINGUISTICS	406	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	1,148	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	65,855	62,412	78,821	79,715	114,879	148,591	183,491	186,182

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF ENERGY 1/

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	593,431	748,499	891,266	1,102,243	1,134,846	1,277,326	1,407,444	1,620,816
LIFE SCIENCES, TOTAL	128,721	102,926	114,863	135,116	138,087	148,069	148,736	152,128
BIOLOGICAL & AGRICULTURAL, TOTAL	119,805	74,978	81,231	98,019	91,188	99,552	102,898	105,977
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	96,019	87,954	92,395	96,793	101,587
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	3,356	2,895	1,000
AGRICULTURAL	-	-	-	2,000	3,234	3,801	3,210	3,390
MEDICAL SCIENCES, TOTAL	8,916	8,523	9,028	6,000	7,310	7,285	6,429	7,814
CLINICAL MEDICAL	8,916	3,957	2,100	-	-	-	-	-
OTHER MEDICAL	-	4,566	6,928	-	-	-	-	-
LIFE SCIENCES, NEC	-	19,425	24,804	31,097	39,589	39,232	39,409	38,337
PHYSICAL SCIENCES, TOTAL	330,974	475,441	552,766	615,841	663,352	792,100	902,579	1,088,542
CHEMISTRY	63,642	76,485	76,302	76,111	72,340	84,313	100,059	127,368
PHYSICS	264,801	394,237	469,244	539,664	574,681	690,503	787,933	921,407
PHYSICAL SCIENCES, NEC	2,531	4,719	7,220	66	16,351	17,284	14,587	19,767
ENVIRONMENTAL SCIENCES, TOTAL	16,807	75,174	84,765	90,660	102,563	117,392	122,910	121,241
ATMOSPHERIC SCIENCES	8,830	14,959	13,433	13,890	15,503	15,937	15,850	14,352
GEOLOGICAL SCIENCES	2,956	24,586	28,389	31,898	31,531	32,617	32,983	32,959
OCEANOGRAPHY	5,021	13,787	13,354	12,438	13,094	14,284	11,681	11,056
ENVIRONMENTAL SCIENCES, NEC	-	21,842	29,589	32,434	42,435	54,554	62,396	62,874

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TABLE 18. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF ENERGY 1/

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	5,532	5,952	6,839	7,698	9,233	11,644	13,033	15,329
MATHEMATICS	-	3,862	4,445	4,809	5,711	7,176	8,385	9,600
COMPUTER SCIENCES	-	2,090	2,394	2,889	3,522	3,020	2,980	3,700
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	1,448	1,668	2,029
ENGINEERING, TOTAL	111,397	84,697	119,347	230,758	204,169	193,120	200,824	241,077
ASTRONAUTICAL	-	-	-	-	2,025	-	-	-
CHEMICAL	24,927	11,878	15,250	41,953	12,173	14,412	17,134	20,545
CIVIL	17,000	1,000	3,700	4,114	-	1,030	980	970
ELECTRICAL	5,656	100	2,402	17,570	6,767	14,760	14,633	8,029
MECHANICAL	7,210	2,822	4,754	1,286	1,796	25,589	25,578	28,449
METALLURGY & MATERIALS	46,928	59,603	76,548	90,622	86,188	48,940	54,326	84,199
ENGINEERING, NEC	9,676	9,296	16,693	75,211	95,220	88,389	88,175	98,885
SOCIAL SCIENCES, TOTAL	-	2,309	2,686	325	2,906	2,269	2,602	3,144
ECONOMICS	-	2,309	1,551	120	-	-	-	-
POLITICAL SCIENCE	-	-	-	-	557	-	-	-
SOCIOLOGY	-	-	135	205	-	-	-	-
SOCIAL SCIENCES, NEC	-	-	1,000	-	2,349	2,269	2,602	3,144
OTHER SCIENCES, NEC	-	-	10,000	21,847	11,536	14,732	18,780	19,355

1/ DATA SHOWN FOR FISCAL YEARS 1970-73 AND FISCAL YEARS 1974-78 REPRESENT OBLIGATIONS OF THE ATOMIC ENERGY COMMISSION AND THE ENERGY RESEARCH & DEVELOPMENT ADMINISTRATION, RESPECTIVELY.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 18. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF HEALTH & HUMAN SERVICES 1/

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	1,914,946	2,117,470	2,374,231	2,691,474	3,015,689	3,332,777	3,470,466	3,698,725
LIFE SCIENCES, TOTAL	1,618,442	1,775,180	1,980,810	2,262,801	2,517,063	2,788,996	2,915,620	3,119,623
BIOLOGICAL & AGRICULTURAL, TOTAL	778,739	864,785	985,402	1,116,522	1,305,557	1,422,930	1,497,889	1,611,133
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	1,116,522	1,305,557	1,422,835	1,497,889	1,611,133
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	95	-	-
MEDICAL SCIENCES, TOTAL	790,638	861,609	953,629	1,078,523	1,124,142	1,266,290	1,321,583	1,410,703
CLINICAL MEDICAL	439,464	476,217	518,540	-	-	-	-	-
OTHER MEDICAL	351,174	385,392	435,089	-	-	-	-	-
LIFE SCIENCES, NEC	49,065	48,806	61,779	67,756	87,364	97,776	96,148	97,787
PSYCHOLOGY, TOTAL	61,240	70,604	70,405	85,328	104,699	101,566	99,519	109,044
BIOLOGICAL ASPECTS	21,818	27,140	27,594	34,409	35,427	41,188	37,270	41,921
SOCIAL ASPECTS	19,834	23,325	19,980	25,331	28,157	28,454	24,022	25,518
PSYCHOLOGICAL SCIENCES, NEC	19,588	20,139	22,851	25,588	41,115	31,928	38,227	41,605
PHYSICAL SCIENCES, TOTAL	41,490	45,160	51,185	58,311	69,797	79,781	83,775	90,333
CHEMISTRY	37,319	40,564	46,047	52,472	62,760	69,908	73,457	79,237
PHYSICS	4,171	4,596	5,118	5,839	7,037	9,873	10,318	11,096
PHYSICAL SCIENCES, NEC	-	-	-	-	-	-	-	-

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TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF HEALTH & HUMAN SERVICES 1/

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	8,114	8,350	10,158	10,190	7,607	8,989	9,299	9,969
MATHEMATICS	-	8,350	9,675	10,034	6,758	8,438	8,811	9,467
COMPUTER SCIENCES	-	-	483	156	92	85	100	100
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	757	466	388	402
ENGINEERING, TOTAL	26,384	28,959	38,620	42,832	42,100	43,179	45,493	48,903
CHEMICAL	-	-	-	-	-	-	-	-
CIVIL	-	-	-	-	-	-	-	-
ELECTRICAL	-	-	-	-	-	-	-	-
MECHANICAL	-	-	-	-	-	-	-	-
METALLURGY & MATERIALS	-	-	-	-	-	-	-	-
ENGINEERING, NEC	26,384	28,959	38,620	42,832	42,100	43,179	45,493	48,903
SOCIAL SCIENCES, TOTAL	99,192	127,620	152,563	159,155	168,740	181,438	180,649	179,738
ANTHROPOLOGY	4,299	3,811	2,040	3,409	2,860	980	939	943
ECONOMICS	23,368	17,931	15,324	22,824	19,002	20,172	19,317	13,769
POLITICAL SCIENCE	1,368	551	263	320	849	1,043	1,159	669
SOCIOLOGY	28,449	29,579	24,391	31,753	33,563	40,036	39,168	35,443
SOCIAL SCIENCES, NEC	41,708	75,748	110,545	100,849	112,466	119,207	120,066	128,914
HISTORY	572	-	-	-	-	-	-	-
LINGUISTICS	1,143	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	39,993	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	60,084	61,597	70,510	72,857	105,663	130,828	136,111	141,115

1/ DATA SHOWN FOR FISCAL YEARS 1970-78 REPRESENT OBLIGATIONS OF THE DEPARTMENT OF HEALTH, EDUCATION, & WELFARE MINUS DATA FOR THE OFFICE OF EDUCATION, THE NATIONAL INSTITUTE OF EDUCATION, AND THE OFFICE OF THE ASSISTANT SECRETARY FOR EDUCATION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

HHS: ALCOHOL, DRUG ABUSE, & MENTAL HEALTH ADMIN

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	139,425	136,617	151,966	178,751	213,535	233,536	233,677	259,954
LIFE SCIENCES, TOTAL	74,276	69,387	76,950	94,137	114,788	124,808	130,112	146,343
BIOLOGICAL & AGRICULTURAL, TOTAL	34,858	46,659	49,423	63,538	75,017	75,250	77,836	89,292
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	63,538	75,017	75,155	77,836	89,292
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	95	-	-
MEDICAL SCIENCES, TOTAL	28,743	16,270	13,051	16,019	18,348	25,594	28,907	34,974
CLINICAL MEDICAL	18,705	12,819	10,206	-	-	-	-	-
OTHER MEDICAL	10,038	3,451	2,845	-	-	-	-	-
LIFE SCIENCES, NEC	10,675	6,458	14,476	14,580	21,425	23,964	23,319	22,077
PSYCHOLOGY, TOTAL	41,655	44,212	48,563	57,316	64,167	70,448	66,685	73,735
BIOLOGICAL ASPECTS	21,818	27,140	27,594	34,409	35,427	41,186	37,270	41,921
SOCIAL ASPECTS	18,560	17,072	18,969	22,652	28,157	28,454	24,022	25,518
PSYCHOLOGICAL SCIENCES, NEC	1,277	-	-	255	583	806	5,393	6,296
PHYSICAL SCIENCES, TOTAL	621	93	938	1,261	624	1,467	1,297	1,602
CHEMISTRY	621	93	938	1,261	624	1,467	1,297	1,602

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TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

HHS: ALCOHOL, DRUG ABUSE, & MENTAL HEALTH ADMIN

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	1,528	1,112	1,936	1,020	849	551	488	502
MATHEMATICS	-	1,112	1,636	864	-	-	-	-
COMPUTER SCIENCES	-	-	300	156	92	85	100	100
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	757	466	388	402
ENGINEERING, TOTAL	-	-	-	209	209	85	82	84
ENGINEERING, NEC	-	-	-	209	209	85	82	84
SOCIAL SCIENCES, TOTAL	17,575	20,684	20,827	24,704	29,631	31,912	30,871	32,417
ANTHROPOLOGY	2,524	3,811	2,040	3,409	2,860	980	939	943
ECONOMICS	114	237	236	283	420	86	82	85
POLITICAL SCIENCE	114	-	243	172	419	514	497	501
SOCIOLOGY	6,461	14,254	15,655	18,278	22,991	26,126	24,760	26,069
SOCIAL SCIENCES, NEC	8,362	2,382	2,653	2,562	2,941	4,206	4,613	4,839
HISTORY	572	-	-	-	-	-	-	-
LINGUISTICS	1,143	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	6,647	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	3,770	1,129	4,752	104	3,287	4,287	4,142	5,271

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

HHS: NATIONAL INSTITUTES OF HEALTH

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	1,604,217	1,767,692	1,988,658	2,232,598	2,530,111	2,787,470	2,934,290	3,154,050
LIFE SCIENCES, TOTAL	1,449,129	1,597,281	1,779,385	2,018,511	2,255,124	2,491,808	2,623,935	2,820,795
BIOLOGICAL & AGRICULTURAL, TOTAL	715,664	790,253	881,884	1,002,372	1,176,647	1,281,328	1,354,141	1,455,489
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	1,002,372	1,176,647	1,281,328	1,354,141	1,455,489
MEDICAL SCIENCES, TOTAL	695,419	765,030	850,670	982,963	1,012,538	1,138,668	1,196,965	1,289,598
CLINICAL MEDICAL	404,526	441,909	488,062	-	-	-	-	-
OTHER MEDICAL	290,893	323,121	362,608	-	-	-	-	-
LIFE SCIENCES, NEC	38,046	41,998	46,851	53,176	65,939	73,812	72,829	75,710
PSYCHOLOGY, TOTAL	18,311	20,139	22,388	25,333	40,532	31,120	32,834	35,309
PSYCHOLOGICAL SCIENCES, NEC	18,311	20,139	22,388	25,333	40,532	31,120	32,834	35,309
PHYSICAL SCIENCES, TOTAL	40,869	45,067	50,227	57,050	69,173	78,314	82,478	88,731
CHEMISTRY	36,698	40,471	45,109	51,211	62,136	68,441	72,160	77,635
PHYSICS	4,171	4,596	5,118	5,839	7,037	9,873	10,318	11,096
PHYSICAL SCIENCES, NEC	-	-	-	-	-	-	-	-

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TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

HHS: NATIONAL INSTITUTES OF HEALTH

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	6,586	7,238	8,039	9,170	8,758	8,438	8,811	9,467
MATHEMATICS	-	7,238	8,039	9,170	8,758	8,438	8,811	9,467
ENGINEERING, TOTAL	26,384	28,959	32,131	36,285	41,891	43,094	45,411	48,819
ENGINEERING, NEC	26,384	28,959	32,131	36,285	41,891	43,094	45,411	48,819
SOCIAL SCIENCES, TOTAL	10,086	11,040	12,218	13,794	14,537	13,575	14,307	15,385
SOCIAL SCIENCES, NEC	10,086	11,040	12,218	13,794	14,537	13,575	14,307	15,385
OTHER SOCIAL SCIENCES	10,086	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	52,852	57,968	64,270	72,453	102,098	121,121	128,514	135,544

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF THE INTERIOR

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	234,053	259,458	255,942	283,492	339,488	354,446	384,351	352,843
LIFE SCIENCES, TOTAL	48,871	49,924	58,678	62,423	80,260	85,789	88,303	83,377
BIOLOGICAL & AGRICULTURAL, TOTAL	48,772	49,848	58,569	62,298	80,070	85,602	88,233	83,377
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	48,275	64,919	43,459	59,214	52,040
ENVIRONMENTAL BIOLOGY	-	-	-	15,265	14,081	40,758	27,579	30,297
AGRICULTURAL	-	-	-	758	1,070	1,387	1,440	1,040
MEDICAL SCIENCES, TOTAL	66	50	58	75	110	105	40	-
OTHER MEDICAL	66	50	58	-	-	-	-	-
LIFE SCIENCES, NEC	33	26	51	50	80	82	30	-
PSYCHOLOGY, TOTAL	315	243	320	350	414	462	122	-
BIOLOGICAL ASPECTS	-	-	-	-	-	-	-	-
SOCIAL ASPECTS	315	243	320	350	414	323	122	-
PSYCHOLOGICAL SCIENCES, NEC	-	-	-	-	-	139	-	-
PHYSICAL SCIENCES, TOTAL	9,032	9,857	12,675	15,689	15,684	13,924	15,022	15,794
ASTRONOMY	-	31	27	-	-	-	-	-
CHEMISTRY	7,406	8,510	10,302	12,665	11,804	9,771	10,768	11,750
PHYSICS	1,626	1,316	1,546	1,624	1,877	2,553	2,149	2,044
PHYSICAL SCIENCES, NEC	-	-	800	1,400	2,003	1,600	2,105	2,000
ENVIRONMENTAL SCIENCES, TOTAL	108,547	111,227	119,395	136,993	158,529	159,954	172,931	170,962
ATMOSPHERIC SCIENCES	4,375	4,937	[illegible],852	8,040	9,548	10,998	9,603	8,657
GEOLOGICAL SCIENCES	89,652	90,219	[illegible],075	112,245	135,470	129,255	141,764	148,815
OCEANOGRAPHY	13,338	15,117	13,519	12,080	8,592	11,261	12,251	13,102
ENVIRONMENTAL SCIENCES, NEC	1,182	954	3,149	4,628	4,919	8,440	9,313	2,388

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TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF THE INTERIOR

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	2,378	2,733	3,156	5,506	7,593	8,130	8,430	7,758
MATHEMATICS	-	1,760	1,845	3,125	5,152	5,032	5,000	4,055
COMPUTER SCIENCES	-	908	1,204	2,231	2,281	2,941	3,379	3,701
MATHEMATICS & COMPUTER SCIENCES, NEC	-	65	107	150	160	157	51	-
ENGINEERING, TOTAL	57,892	78,319	58,022	58,829	69,774	79,140	74,458	71,160
ASTRONAUTICAL	-	-	-	-	161	-	-	-
CHEMICAL	8,584	12,382	6,355	4,946	5,128	4,236	3,565	6,830
CIVIL	10,257	13,627	8,881	14,315	13,387	20,625	19,687	12,625
ELECTRICAL	4,087	5,610	1,115	1,313	1,678	961	934	880
MECHANICAL	4,719	6,775	7,612	5,564	6,632	6,681	6,457	4,961
METALLURGY & MATERIALS	29,283	39,171	30,735	28,315	40,282	45,038	39,512	40,500
ENGINEERING, NEC	962	754	1,324	2,376	2,506	1,599	4,301	5,364
SOCIAL SCIENCES, TOTAL	5,755	5,930	4,926	4,674	6,110	5,808	4,658	3,694
ANTHROPOLOGY	3,179	3,680	2,610	2,270	2,283	2,300	2,300	3,000
ECONOMICS	917	720	912	759	1,675	1,534	902	499
POLITICAL SCIENCE	730	566	588	840	950	887	339	-
SOCIOLOGY	576	560	469	535	847	623	431	195
SOCIAL SCIENCES, NEC	353	404	347	270	355	464	686	-
HISTORY	64	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	289	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	1,283	1,225	770	1,028	1,104	1,239	429	100

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

ENVIRONMENTAL PROTECTION AGENCY

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	141,711	155,395	205,252	252,670	259,000	245,100	259,900	215,200
LIFE SCIENCES, TOTAL	38,300	51,280	78,762	78,020	87,051	78,024	78,210	68,407
BIOLOGICAL & AGRICULTURAL, TOTAL	33,500	45,639	72,250	73,580	78,672	67,728	74,498	64,429
ENVIRONMENTAL BIOLOGY	-	-	-	73,580	60,772	51,843	74,498	64,429
AGRICULTURAL	-	-	-	-	17,900	15,883	-	-
MEDICAL SCIENCES, TOTAL	4,800	5,641	4,512	4,440	8,379	10,298	3,712	1,978
CLINICAL MEDICAL	-	-	-	-	-	-	-	-
OTHER MEDICAL	4,800	5,641	4,512	-	-	-	-	-
PSYCHOLOGY, TOTAL	-	-	-	-	-	-	-	-
BIOLOGICAL ASPECTS	-	-	-	-	-	-	-	-
SOCIAL ASPECTS	-	-	-	-	-	-	-	-
PHYSICAL SCIENCES, TOTAL	32,600	49,726	50,155	70,748	73,230	71,542	82,959	70,152
CHEMISTRY	25,200	45,747	46,035	67,771	72,455	70,667	82,959	70,152
PHYSICS	7,400	3,979	4,120	2,977	775	875	-	-
PHYSICAL SCIENCES, NEC	-	-	-	-	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	7,000	4,662	8,205	4,789	3,378	7,504	8,098	4,767
ATMOSPHERIC SCIENCES	3,900	793	940	1,616	1,632	1,887	3,396	4,042
GEOLOGICAL SCIENCES	1,700	2,191	3,590	2,051	1,588	5,265	2,327	725
OCEANOGRAPHY	1,400	1,678	1,675	1,102	158	352	375	-
ENVIRONMENTAL SCIENCES, NEC	-	-	-	-	-	-	-	-

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TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

ENVIRONMENTAL PROTECTION AGENCY

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	2,300	2,330	3,100	3,699	1,024	1,038	300	-
MATHEMATICS	-	466	2,370	1,797	-	-	300	-
COMPUTER SCIENCES	-	1,864	730	1,902	1,024	1,038	-	-
ENGINEERING, TOTAL	55,871	45,497	65,715	92,950	92,733	85,253	91,010	72,684
ASTRONAUTICAL	-	-	-	-	-	-	-	-
CHEMICAL	14,600	17,288	25,212	39,828	42,205	31,966	65,227	52,835
CIVIL	19,800	17,750	24,890	33,673	34,558	37,081	25,783	19,829
ELECTRICAL	4,471	5,232	7,814	7,780	4,325	4,426	-	-
MECHANICAL	17,000	5,227	7,799	11,669	11,645	11,780	-	-
SOCIAL SCIENCES, TOTAL	5,640	1,900	3,315	2,484	1,588	1,739	1,323	1,210
ECONOMICS	4,400	1,520	2,395	2,279	1,588	1,239	1,323	1,210
SOCIOLOGY	1,240	380	920	205	-	500	-	-
SOCIAL SCIENCES, NEC	-	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	935,139	1,222,841	1,206,076	1,345,167	1,451,236	1,609,644	1,554,566	1,653,948
LIFE SCIENCES, TOTAL	18,000	25,227	29,056	46,698	53,816	67,447	58,308	60,482
BIOLOGICAL & AGRICULTURAL, TOTAL	7,693	8,678	15,268	22,222	19,826	29,510	31,280	33,836
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	22,222	17,230	18,305	18,105	18,950
ENVIRONMENTAL BIOLOGY	-	-	-	-	2,592	1,760	1,475	1,500
AGRICULTURAL	-	-	-	-	4	11,445	13,680	15,386
MEDICAL SCIENCES, TOTAL	8,746	15,285	12,218	24,476	31,209	34,865	23,798	23,271
CLINICAL MEDICAL	1,150	1,147	1,250	-	-	-	-	-
OTHER MEDICAL	7,596	14,138	10,988	-	-	-	-	-
LIFE SCIENCES, NEC	1,581	1,266	1,570	-	2,781	3,072	3,250	3,375
PSYCHOLOGY, TOTAL	21,216	10,662	11,651	28,679	1,634	1,972	1,878	1,993
BIOLOGICAL ASPECTS	2,549	-	10,443	15,274	86	97	100	115
SOCIAL ASPECTS	8,979	519	567	441	1,082	1,270	1,103	1,128
PSYCHOLOGICAL SCIENCES, NEC	9,688	10,143	641	10,964	466	605	675	750
PHYSICAL SCIENCES, TOTAL	211,751	197,054	264,156	264,813	304,789	321,272	295,801	337,444
ASTRONOMY	122,002	116,575	140,702	148,603	213,272	229,724	196,660	228,909
CHEMISTRY	7,951	5,252	11,750	9,275	6,415	6,734	7,622	6,034
PHYSICS	71,754	66,932	99,048	94,324	73,285	77,211	82,831	87,988
PHYSICAL SCIENCES, NEC	10,044	8,295	12,658	12,611	11,817	7,603	8,688	14,533
ENVIRONMENTAL SCIENCES, TOTAL	251,311	219,039	305,592	381,571	388,137	413,444	404,926	448,101
ATMOSPHERIC SCIENCES	120,715	102,725	145,989	135,895	144,010	178,102	159,270	188,061
GEOLOGICAL SCIENCES	35,936	37,507	54,034	72,435	88,988	99,225	111,645	116,321
OCEANOGRAPHY	24,405	20,843	31,973	40,152	27,400	28,826	32,029	36,873
ENVIRONMENTAL SCIENCES, NEC	70,255	57,964	73,596	113,089	107,739	107,291	101,982	109,046

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TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	1,718	4,078	25,917	18,156	2,716	3,755	4,515	6,862
MATHEMATICS	-	-	22,780	2,016	2,284	2,342	2,900	5,112
COMPUTER SCIENCES	-	-	3,137	16,140	432	1,214	1,395	1,475
MATHEMATICS & COMPUTER SCIENCES, NEC	-	4,078	-	-	-	199	220	275
ENGINEERING, TOTAL	422,708	755,490	566,123	624,786	717,299	799,628	786,838	796,616
AERONAUTICAL	225,138	411,980	272,141	320,100	433,764	491,398	471,972	471,680
ASTRONAUTICAL	83,169	163,618	130,985	134,967	212,499	233,793	233,549	247,698
CHEMICAL	2,883	9,136	11,744	18,200	75	206	240	270
CIVIL	313	1,241	1,716	1,574	55	55	65	75
ELECTRICAL	21,811	48,815	40,486	26,370	3,100	4,103	4,480	4,650
MECHANICAL	10,256	28,971	22,873	37,002	1,875	3,062	3,275	3,400
METALLURGY & MATERIALS	46,154	74,293	64,458	58,916	8,300	8,856	6,000	7,215
ENGINEERING, NEC	32,984	17,436	21,720	27,657	57,631	58,155	67,277	61,628
SOCIAL SCIENCES, TOTAL	961	1,783	615	54	149	217	250	300
ECONOMICS	598	1,648	539	-	-	22	25	30
POLITICAL SCIENCE	235	95	30	29	15	-	-	-
SOCIOLOGY	-	-	-	-	-	-	25	30
SOCIAL SCIENCES, NEC	128	40	46	25	134	170	200	240
HISTORY	72	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	56	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	7,474	9,508	2,986	2,410	2,698	1,909	2,050	2,150

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

NATIONAL SCIENCE FOUNDATION

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	570,015	595,778	688,300	743,502	800,025	873,687	933,404	999,900
LIFE SCIENCES, TOTAL	97,799	104,352	113,322	124,885	137,927	158,851	167,516	179,009
BIOLOGICAL & AGRICULTURAL, TOTAL	97,799	104,205	112,120	120,016	131,428	156,514	167,281	178,459
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	82,132	84,093	111,339	120,165	128,288
ENVIRONMENTAL BIOLOGY	-	-	-	37,884	47,333	45,125	46,998	50,093
AGRICULTURAL	-	-	-	-	-	50	100	100
MEDICAL SCIENCES, TOTAL	-	-	1,122	-	-	-	-	-
CLINICAL MEDICAL	-	-	-	-	-	-	-	-
OTHER MEDICAL	-	-	1,122	-	-	-	-	-
LIFE SCIENCES, NEC	-	147	80	4,869	6,501	337	255	550
PSYCHOLOGY, TOTAL	9,112	8,249	11,381	9,209	12,453	13,498	11,745	7,630
BIOLOGICAL ASPECTS	6,612	5,697	8,368	5,838	8,592	8,508	7,820	6,050
SOCIAL ASPECTS	2,500	2,552	3,013	3,371	3,821	4,990	3,925	1,580
PSYCHOLOGICAL SCIENCES, NEC	-	-	-	-	40	-	-	-
PHYSICAL SCIENCES, TOTAL	148,947	148,044	184,160	195,672	205,781	203,258	225,817	281,002
ASTRONOMY	29,093	31,754	41,585	48,614	51,064	34,512	38,083	41,788
CHEMISTRY	49,792	43,080	57,656	60,257	65,801	70,724	78,925	90,505
PHYSICS	70,062	73,210	84,888	88,782	88,941	97,370	109,384	127,284
PHYSICAL SCIENCES, NEC	-	-	33	19	175	650	1,445	1,427
ENVIRONMENTAL SCIENCES, TOTAL	135,738	130,078	182,360	202,303	220,208	258,244	275,874	303,400
ATMOSPHERIC SCIENCES	51,734	50,955	84,200	71,228	79,208	78,893	79,074	88,128
GEOLOGICAL SCIENCES	40,433	37,578	54,478	82,104	86,819	92,231	98,520	106,953
OCEANOGRAPHY	43,557	41,233	83,662	88,673	73,731	88,125	99,855	109,944
ENVIRONMENTAL SCIENCES, NEC	12	314	22	298	848	995	425	375

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TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

NATIONAL SCIENCE FOUNDATION

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	28,825	34,691	42,264	44,510	45,149	52,678	58,300	66,912
MATHEMATICS	-	18,487	21,873	23,258	24,500	27,372	29,645	36,819
COMPUTER SCIENCES	-	16,029	20,391	21,254	20,649	25,237	28,540	29,793
MATHEMATICS & COMPUTER SCIENCES, NEC	-	175	-	-	-	69	115	300
ENGINEERING, TOTAL	87,873	77,418	86,135	89,270	96,539	106,796	119,231	141,318
AERONAUTICAL	22	-	708	707	927	1,048	1,098	1,406
ASTRONAUTICAL	-	-	-	-	-	-	-	-
CHEMICAL	11,292	11,494	10,059	9,847	14,307	15,014	16,500	19,458
CIVIL	4,669	4,989	8,248	8,026	22,063	27,381	27,139	30,215
ELECTRICAL	11,703	15,503	20,144	20,494	18,928	21,692	25,401	32,130
MECHANICAL	7,355	7,674	7,390	7,391	11,748	13,743	17,078	19,917
METALLURGY & MATERIALS	18,818	17,467	19,264	18,102	18,753	22,617	25,255	29,741
ENGINEERING, NEC	34,016	20,291	20,322	26,703	9,815	5,301	6,782	8,451
SOCIAL SCIENCES, TOTAL	40,319	56,321	54,018	55,124	51,605	47,491	39,082	22,882
ANTHROPOLOGY	3,659	3,489	3,924	5,948	6,659	6,874	6,445	5,470
ECONOMICS	7,796	7,884	10,204	11,885	12,448	15,513	12,585	6,555
POLITICAL SCIENCE	1,547	2,326	2,468	3,384	3,565	3,869	2,940	1,080
SOCIOLOGY	2,777	2,967	3,810	3,958	3,681	5,130	4,182	2,807
SOCIAL SCIENCES, NEC	24,540	39,655	33,610	29,969	25,272	16,105	12,970	7,170
HISTORY	929	-	-	-	-	-	-	-
LINGUISTICS	1,500	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	22,111	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	21,404	38,623	14,662	22,529	30,385	38,875	37,839	17,747

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

ALL OTHER DEPARTMENTS AND AGENCIES

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	363,042	396,475	477,054	576,893	672,285	730,761	789,082	789,808
LIFE SCIENCES, TOTAL	112,724	101,601	120,675	127,418	191,048	210,675	232,385	233,728
BIOLOGICAL & AGRICULTURAL, TOTAL	44,713	42,673	44,050	45,067	77,101	80,186	90,327	107,773
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	34,715	29,777	27,801	30,445	40,059
ENVIRONMENTAL BIOLOGY	-	-	-	8,670	11,547	11,824	11,870	13,761
AGRICULTURAL	-	-	-	1,682	35,777	40,561	48,012	53,953
MEDICAL SCIENCES, TOTAL	67,054	58,058	74,382	77,925	108,446	127,017	138,563	124,449
CLINICAL MEDICAL	47,535	38,097	50,945	-	-	-	-	-
OTHER MEDICAL	19,519	19,961	23,417	-	-	-	-	-
LIFE SCIENCES, NEC	957	870	2,263	4,426	7,501	3,472	3,495	1,506
PSYCHOLOGY, TOTAL	7,585	13,670	12,153	17,222	17,075	17,832	24,357	21,298
BIOLOGICAL ASPECTS	4,265	8,560	9,534	10,363	11,047	9,529	15,369	14,233
SOCIAL ASPECTS	3,259	5,110	2,619	5,859	3,312	4,392	5,281	1,833
PSYCHOLOGICAL SCIENCES, NEC	61	-	-	1,000	2,716	3,411	3,707	5,232
PHYSICAL SCIENCES, TOTAL	6,397	7,680	10,946	16,055	17,354	16,876	19,035	17,118
ASTRONOMY	4,248	4,408	5,007	6,417	6,870	7,596	8,280	8,618
CHEMISTRY	1,841	2,175	4,729	7,047	7,997	5,799	6,334	4,697
PHYSICS	61	170	470	1,781	2,307	2,584	3,153	2,334
PHYSICAL SCIENCES, NEC	247	927	740	810	380	917	1,258	1,467
ENVIRONMENTAL SCIENCES, TOTAL	9,482	5,298	11,011	3,780	5,095	5,210	5,222	5,342
ATMOSPHERIC SCIENCES	3,145	129	995	183	506	325	656	328
GEOLOGICAL SCIENCES	1,732	4,245	1,973	2,029	2,132	2,546	2,299	3,132
OCEANOGRAPHY	406	756	1,045	1,406	2,069	1,837	1,479	1,569
ENVIRONMENTAL SCIENCES, NEC	4,199	168	8,998	182	388	502	788	313

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TABLE 1B. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

ALL OTHER DEPARTMENTS AND AGENCIES

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	337	1,207	1,533	14,203	12,893	5,140	3,791	5,043
MATHEMATICS	-	582	378	11,258	1,775	1,045	737	998
COMPUTER SCIENCES	-	387	433	648	6,158	2,920	2,897	3,987
MATHEMATICS & COMPUTER SCIENCES, NEC	-	238	722	2,297	4,980	1,175	157	80
ENGINEERING, TOTAL	130,805	136,677	186,701	215,943	213,788	270,590	300,392	324,638
AERONAUTICAL	3,838	1,767	2,435	2,711	1,125	1,382	1,488	3,510
ASTRONAUTICAL	430	382	381	442	525	719	665	775
CHEMICAL	1,988	1,695	174	1,601	1,302	1,275	1,259	1,514
CIVIL	37,187	21,957	34,751	44,494	13,596	24,058	24,678	25,417
ELECTRICAL	6,825	3,382	5,130	9,064	11,668	15,460	18,588	20,030
MECHANICAL	2,751	2,710	8,443	9,175	13,679	19,394	20,867	19,858
METALLURGY & MATERIALS	562	472	796	813	232	1,224	343	2,084
ENGINEERING, NEC	77,224	104,312	134,591	147,643	171,661	207,078	232,704	251,450
SOCIAL SCIENCES, TOTAL	85,963	126,408	133,237	176,892	194,826	189,265	181,262	181,982
ANTHROPOLOGY	2,713	2,575	3,805	7,884	5,541	7,006	6,598	9,159
ECONOMICS	32,893	43,198	44,851	45,775	61,003	71,122	74,910	70,389
POLITICAL SCIENCE	6,466	2,810	3,726	2,240	5,829	4,965	4,046	3,425
SOCIOLOGY	18,195	15,546	16,786	15,782	18,629	16,593	15,839	12,519
SOCIAL SCIENCES, NEC	25,696	62,279	64,069	105,211	103,824	89,579	79,871	86,510
HISTORY	4,958	-	-	-	-	-	-	-
LINGUISTICS	-	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	20,740	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	9,749	3,936	798	5,380	20,206	15,373	22,638	20,663

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

TOTAL, ALL AGENCIES

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	1,946,946	2,006,207	2,223,033	2,241,675	2,398,189	2,600,383	2,778,727	3,289,497
LIFE SCIENCES, TOTAL	703,805	758,070	879,976	888,396	1,032,184	1,115,929	1,222,015	1,383,365
BIOLOGICAL & AGRICULTURAL, TOTAL	491,978	527,634	609,058	608,640	691,875	747,014	818,412	933,574
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	198,747	211,107	245,820	253,231	317,584	342,355	374,381	414,789
CLINICAL MEDICAL	40,568	29,048	37,298	35,229	32,932	38,826	41,562	39,575
OTHER MEDICAL	158,179	182,059	208,522	218,002	284,652	303,529	332,819	375,214
LIFE SCIENCES, NEC	13,080	17,329	25,098	26,525	22,705	26,560	29,222	35,002
PSYCHOLOGY, TOTAL	48,298	46,287	51,432	45,364	46,124	58,642	45,529	55,717
BIOLOGICAL ASPECTS	19,718	18,875	21,999	18,591	18,602	18,231	18,474	22,526
SOCIAL ASPECTS	21,698	22,108	21,505	18,612	18,018	22,181	16,086	20,043
PSYCHOLOGICAL SCIENCES, NEC	6,882	5,304	7,928	8,161	9,504	18,230	10,969	13,148
PHYSICAL SCIENCES, TOTAL	601,450	593,415	637,453	628,210	649,605	708,959	721,435	889,994
ASTRONOMY	130,731	124,052	128,865	121,477	133,341	163,028	159,960	193,321
CHEMISTRY	127,179	110,386	141,233	146,417	149,275	158,648	168,265	208,695
PHYSICS	338,926	350,733	361,748	350,773	360,300	378,973	388,440	467,414
PHYSICAL SCIENCES, NEC	4,614	8,244	5,609	9,543	6,689	8,310	4,770	20,564
ENVIRONMENTAL SCIENCES, TOTAL	254,787	275,549	282,512	283,080	302,150	292,719	305,598	398,311
ATMOSPHERIC SCIENCES	122,834	132,202	129,287	141,840	147,298	121,437	123,588	152,600
GEOLOGICAL SCIENCES	80,488	79,851	70,961	80,320	80,909	88,593	95,705	128,720
OCEANOGRAPHY	48,299	58,610	72,623	47,525	64,544	74,769	78,274	108,314
ENVIRONMENTAL SCIENCES, NEC	3,166	5,086	9,641	13,395	9,401	7,920	8,033	10,677

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TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

TOTAL, ALL AGENCIES

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	59,379	55,313	66,588	60,082	52,739	62,007	81,805	83,408
MATHEMATICS	-	-	-	-	-	-	43,176	52,135
COMPUTER SCIENCES	-	-	-	-	-	-	26,594	31,018
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	12,035	255
ENGINEERING, TOTAL	203,429	192,553	207,959	220,760	214,872	262 47	272,799	337,683
AERONAUTICAL	34,778	29,076	27,263	34,285	32,209	30,163	31,988	49,520
ASTRONAUTICAL	12,814	11,644	7,745	7,240	11,066	11,292	11,850	10,180
CHEMICAL	12,131	11,580	10,805	12,409	11,309	16,350	18,425	24,034
CIVIL	5,537	6,259	8,887	10,428	10,080	7,722	7,786	10,358
ELECTRICAL	34,253	35,720	42,641	43,982	38,448	47,786	53,079	55,139
MECHANICAL	35,673	26,493	27,510	27,804	17,285	17,631	20,116	29,628
METALLURGY & MATERIALS	49,617	58,248	62,522	67,701	74,646	99,720	103,273	124,888
ENGINEERING, NEC	18,826	13,553	20,606	16,911	19,829	32,203	26,282	33,938
SOCIAL SCIENCES, TOTAL	64,747	71,289	81,535	80,197	74,831	73,757	88,426	95,513
ANTHROPOLOGY	7,929	8,755	9,887	10,665	8,800	8,984	8,429	8,040
ECONOMICS	25,279	24,726	25,007	21,712	25,122	22,066	25,634	29,085
POLITICAL SCIENCE	3,883	2,262	2,838	2,986	2,221	1,607	2,999	2,544
SOCIOLOGY	12,843	16,378	20,722	12,479	14,430	15,069	16,602	15,936
SOCIAL SCIENCES, NEC	15,013	19,168	23,101	32,355	24,258	28,031	34,762	39,908
HISTORY	4,424	3,662	4,300	4,645	5,855	5,999	-	-
LINGUISTICS	1,662	1,931	2,533	3,059	2,143	2,108	-	-
OTHER SOCIAL SCIENCES	8,927	13,575	16,268	24,651	16,260	19,924	-	-
OTHER SCIENCES, NEC	11,051	15,731	15,578	35,588	25,704	25,523	43,120	25,508

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF AGRICULTURE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	115,709	118,414	137,311	142,726	145,611	154,184	171,371	204,450
LIFE SCIENCES, TOTAL	75,667	78,749	94,502	98,288	99,854	108,885	121,885	144,389
BIOLOGICAL & AGRICULTURAL, TOTAL	74,553	77,449	93,082	96,749	98,316	107,146	119,715	142,201
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	1,114	1,300	1,420	1,537	1,538	1,739	1,950	2,188
CLINICAL MEDICAL	1,050	1,165	1,420	1,537	1,538	1,739	1,950	2,188
OTHER MEDICAL	64	135	-	-	-	-	-	-
LIFE SCIENCES, NEC	-	-	-	-	-	-	-	-
PSYCHOLOGY, TOTAL	5	5	28	14	8	-	23	28
SOCIAL ASPECTS	5	5	28	14	8	-	23	28
PHYSICAL SCIENCES, TOTAL	17,796	18,634	19,703	20,314	20,664	19,955	21,548	27,458
CHEMISTRY	15,306	14,021	16,660	17,204	17,484	17,235	18,508	23,941
PHYSICS	2,490	2,535	3,043	3,110	3,180	2,720	3,040	3,517
PHYSICAL SCIENCES, NEC	-	78	-	-	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	1,573	1,713	2,086	2,188	2,284	2,864	3,301	4,384
ATMOSPHERIC SCIENCES	637	705	849	895	929	1,252	1,474	1,871
GEOLOGICAL SCIENCES	936	1,008	289	298	307	233	1,135	1,672
ENVIRONMENTAL SCIENCES, NEC	-	-	948	995	1,048	1,379	692	841

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TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF AGRICULTURE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	307	322	575	545	575	1,042	1,350	917
MATHEMATICS	-	-	-	-	-	-	1,350	917
ENGINEERING, TOTAL	10,292	9,536	8,377	8,610	8,795	8,954	9,489	11,512
CHEMICAL	2,434	1,793	667	698	721	508	449	651
CIVIL	1,087	1,17[illegible]	1,439	1,474	1,519	1,451	1,540	2,105
ELECTRICAL	33	19	15	16	15	27	54	101
MECHANICAL	466	474	420	428	444	388	435	500
ENGINEERING, NEC	6,272	6,079	5,836	5,996	6,096	6,582	7,011	8,155
SOCIAL SCIENCES, TOTAL	10,089	11,455	12,042	12,769	13,431	12,484	13,997	15,784
ANTHROPOLOGY	-	-	-	3	3	-	-	-
ECONOMICS	9,389	10,705	11,207	11,986	12,715	11,574	13,005	14,413
POLITICAL SCIENCE	43	29	18	18	11	-	-	-
SOCIOLOGY	497	545	668	701	572	814	885	1,238
SOCIAL SCIENCES, NEC	140	176	149	61	130	96	107	113
HISTORY	43	91	93	59	78	-	-	-
OTHER SOCIAL SCIENCES	97	85	56	2	52	96	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF COMMERCE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	39,201	41,777	44,024	16,313	18,189	20,065	22,274	23,159
LIFE SCIENCES, TOTAL	6,943	8,602	12,272	-	-	-	-	160
BIOLOGICAL & AGRICULTURAL, TOTAL	6,943	8,602	12,272	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	-	-	-	-	-	-	-	160
OTHER MEDICAL	-	-	-	-	-	-	-	160
PSYCHOLOGY, TOTAL	319	379	123	66	77	80	42	45
BIOLOGICAL ASPECTS	210	261	-	-	-	-	-	-
SOCIAL ASPECTS	109	118	123	66	77	80	42	45
PHYSICAL SCIENCES, TOTAL	11,510	12,277	4,768	3,677	4,907	4,379	4,767	8,191
ASTRONOMY	823	755	487	347	329	368	348	357
CHEMISTRY	4,114	4,205	2,418	1,305	1,909	1,123	1,325	2,831
PHYSICS	6,246	7,317	1,621	2,025	2,669	2,888	3,096	5,003
PHYSICAL SCIENCES, NEC	327	-	242	-	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	11,571	14,336	19,853	9,669	10,508	11,958	11,273	10,857
ATMOSPHERIC SCIENCES	8,415	10,426	14,438	7,923	8,834	10,398	9,579	9,136
GEOLOGICAL SCIENCES	2,314	2,867	3,971	416	-	-	-	-
OCEANOGRAPHY	842	1,043	1,444	1,330	1,674	1,558	1,694	1,721

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TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF COMMERCE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	420	239	221	105	123	127	140	155
MATHEMATICS	-	-	-	-	-	-	140	155
COMPUTER SCIENCES	-	-	-	-	-	-	-	-
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	-	-
ENGINEERING, TOTAL	3,887	4,311	5,319	2,785	2,563	2,812	2,311	2,551
AERONAUTICAL	125	-	-	-	-	-	-	-
CHEMICAL	-	-	-	-	-	-	-	48
CIVIL	97	194	2,779	1,484	754	531	840	380
ELECTRICAL	1,193	1,142	1,083	228	364	232	261	380
MECHANICAL	517	894	722	-	-	100	145	120
METALLURGY & MATERIALS	1,537	1,798	682	892	1,049	903	942	717
ENGINEERING, NEC	418	285	53	383	396	1,046	323	948
SOCIAL SCIENCES, TOTAL	4,387	1,073	1,488	11	11	11	1,675	1,200
ECONOMICS	4,387	1,073	1,488	11	11	11	1,675	1,200
OTHER SCIENCES, NEC	184	580	-	-	-	700	2,088	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF DEFENSE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	317,013	322,139	328,774	306,711	302,943	300,065	328,885	373,254
LIFE SCIENCES, TOTAL	40,448	39,586	44,400	43,345	38,802	36,197	42,374	43,397
BIOLOGICAL & AGRICULTURAL, TOTAL	17,770	17,893	18,863	13,212	14,443	8,998	4,682	12,770
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	22,678	21,693	25,537	30,133	24,307	27,201	37,692	30,627
CLINICAL MEDICAL	22,678	21,108	24,955	24,270	20,416	23,041	32,140	24,613
OTHER MEDICAL	-	585	582	5,863	3,891	4,160	5,552	6,014
LIFE SCIENCES, NEC	-	-	-	-	52	-	-	-
PSYCHOLOGY, TOTAL	11,256	10,584	11,032	9,602	11,397	9,493	10,600	13,436
BIOLOGICAL ASPECTS	1,627	1,684	1,993	1,199	1,787	1,394	1,713	977
SOCIAL ASPECTS	8,858	8,079	7,226	6,465	7,435	6,480	6,936	8,926
PSYCHOLOGICAL SCIENCES, NEC	771	821	1,813	1,938	2,175	1,619	1,951	3,533
PHYSICAL SCIENCES, TOTAL	91,815	85,713	77,484	73,144	71,174	69,688	83,478	97,638
ASTRONOMY	11,173	8,820	10,071	9,083	9,098	9,989	9,164	8,265
CHEMISTRY	15,771	17,242	16,682	15,157	12,623	13,080	19,114	20,875
PHYSICS	60,678	52,795	49,480	47,531	47,772	44,902	34,016	54,702
PHYSICAL SCIENCES, NEC	4,193	6,856	1,231	1,373	1,681	1,737	1,184	13,794
ENVIRONMENTAL SCIENCES, TOTAL	58,527	61,422	64,750	55,643	59,874	59,675	65,903	58,171
ATMOSPHERIC SCIENCES	24,677	27,823	29,509	27,419	28,783	27,588	29,329	14,061
GEOLOGICAL SCIENCES	4,987	5,897	6,409	6,040	5,673	5,996	6,388	5,868
OCEANOGRAPHY	25,910	24,630	25,440	19,307	22,217	23,069	26,495	30,992
ENVIRONMENTAL SCIENCES, NEC	2,953	3,072	3,392	2,877	3,201	3,022	3,693	5,250

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TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF DEFENSE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	32,697	29,428	31,759	30,530	21,242	24,167	35,033	29,675
MATHEMATICS	-	-	-	-	-	-	16,463	18,836
COMPUTER SCIENCES	-	-	-	-	-	-	9,731	10,595
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	8,839	244
ENGINEERING, TOTAL	80,023	87,907	91,703	92,253	98,457	98,864	107,684	131,299
AERONAUTICAL	1,850	4,249	3,673	2,903	10,340	10,730	12,401	15,888
ASTRONAUTICAL	6,457	8,029	7,150	6,394	5,580	5,684	5,220	3,028
CHEMICAL	5,030	4,828	4,506	4,072	4,149	4,518	5,729	11,830
CIVIL	1,230	1,162	977	929	1,753	880	249	329
ELECTRICAL	19,644	24,305	23,125	22,892	24,189	32,288	35,590	33,059
MECHANICAL	18,523	12,856	17,502	15,928	8,238	9,643	10,828	19,417
METALLURGY & MATERIALS	23,825	32,393	34,388	38,862	41,480	34,385	37,095	43,884
ENGINEERING, NEC	3,464	85	402	473	770	756	572	4,108
SOCIAL SCIENCES, TOTAL	2,247	2,896	2,674	2,094	2,814	1,803	1,446	1,501
ANTHROPOLOGY	-	252	-	-	525	-	15	-
ECONOMICS	-	170	-	-	-	-	-	34
POLITICAL SCIENCE	1,625	923	527	740	91	-	-	-
SOCIOLOGY	511	1,185	1,730	1,354	1,877	1,175	1,431	1,487
SOCIAL SCIENCES, NEC	111	388	417	-	321	628	-	-
LINGUISTICS	111	388	417	-	321	388	-	-
OTHER SOCIAL SCIENCES	-	-	-	-	-	240	-	-
OTHER SCIENCES, NEC	-	4,805	4,992	100	1,183	178	387	139

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF ENERGY 1/

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	286,669	276,897	268,289	275,158	269,504	312,758	345,790	389,450
LIFE SCIENCES, TOTAL	37,599	35,927	35,314	37,076	14,152	21,039	24,381	25,821
BIOLOGICAL & AGRICULTURAL, TOTAL	37,599	35,927	35,314	37,076	14,152	21,039	24,381	25,821
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
LIFE SCIENCES, NEC	-	-	-	-	-	-	-	-
PHYSICAL SCIENCES, TOTAL	230,966	223,443	216,505	220,892	237,204	242,892	267,401	293,823
CHEMISTRY	39,016	36,735	34,652	38,949	47,838	49,194	53,818	61,742
PHYSICS	191,950	186,708	181,853	181,943	185,604	191,248	213,583	232,081
PHYSICAL SCIENCES, NEC	-	-	-	-	3,784	2,450	-	-
ENVIRONMENTAL SCIENCES, TOTAL	-	-	-	-	493	2,389	2,874	3,540
ATMOSPHERIC SCIENCES	-	-	-	-	147	-	-	-
GEOLOGICAL SCIENCES	-	-	-	-	-	2,389	2,874	3,540
OCEANOGRAPHY	-	-	-	-	346	-	-	-
ENVIRONMENTAL SCIENCES, NEC	-	-	-	-	-	-	-	-

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TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF ENERGY 1/

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	5,779	5,309	4,809	4,634	4,018	5,532	5,952	6,839
MATHEMATICS	-	-	-	-	-	-	3,862	4,445
COMPUTER SCIENCES	-	-	-	-	-	-	2,090	2,394
ENGINEERING, TOTAL	12,325	12,218	11,681	12,554	13,637	40,928	45,182	59,427
CHEMICAL	239	225	217	1,074	76	-	-	1,073
ELECTRICAL	-	-	-	-	375	-	-	-
MECHANICAL	-	-	-	-	-	-	-	-
METALLURGY & MATERIALS	12,086	11,993	11,444	11,480	12,909	40,928	45,182	58,354
ENGINEERING, NEC	-	-	-	-	277	-	-	-
OTHER SCIENCES, NEC	-	-	-	-	-	-	-	-

1/ DATA SHOWN FOR FISCAL YEARS 1970-73 AND FISCAL YEARS 1974-76 REPRESENT OBLIGATIONS OF THE ATOMIC ENERGY COMMISSION AND THE ENERGY RESEARCH & DEVELOPMENT ADMINISTRATION, RESPECTIVELY.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF HEALTH & HUMAN SERVICES 1/

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	505,152	567,708	661,655	655,899	845,099	901,853	981,091	1,107,815
LIFE SCIENCES, TOTAL	438,620	493,064	573,838	578,295	756,639	813,257	890,670	1,003,714
BIOLOGICAL & AGRICULTURAL, TOTAL	261,987	293,465	342,441	344,295	446,773	478,833	533,765	597,819
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	163,923	185,193	214,648	217,041	287,692	308,247	328,285	371,742
CLINICAL MEDICAL	7,891	4,905	9,011	8,148	8,982	11,900	3,518	7,725
OTHER MEDICAL	156,032	180,288	205,635	208,893	278,710	296,347	324,747	364,017
LIFE SCIENCES, NEC	12,710	14,406	16,751	16,959	22,174	26,177	28,640	34,153
PSYCHOLOGY, TOTAL	24,629	27,288	30,689	27,954	26,737	26,448	24,109	27,613
BIOLOGICAL ASPECTS	11,607	13,340	14,997	13,189	12,733	9,002	10,189	11,400
SOCIAL ASPECTS	9,067	9,465	10,479	9,508	7,104	9,370	5,749	7,021
PSYCHOLOGICAL SCIENCES, NEC	3,955	4,483	5,213	5,277	6,900	8,076	8,191	9,192
PHYSICAL SCIENCES, TOTAL	13,044	14,988	17,473	17,519	21,655	23,273	25,525	29,508
CHEMISTRY	11,889	1,013	15,950	15,977	19,640	21,119	23,132	26,821
PHYSICS	1,155	12,643	1,523	1,542	2,015	2,154	2,393	2,685
PHYSICAL SCIENCES, NEC	-	1,310	-	-	-	-	-	-

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TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF HEALTH & HUMAN SERVICES 1/

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	1,244	1,695	1,904	1,868	2,809	2,855	2,912	3,465
MATHEMATICS	-	-	-	-	-	-	2,912	3,465
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	-	-
ENGINEERING, TOTAL	4,000	4,533	5,271	5,337	6,979	7,457	8,283	9,295
ENGINEERING, NEC	4,000	4,533	5,271	5,337	6,979	7,457	8,283	9,295
SOCIAL SCIENCES, TOTAL	16,880	18,508	23,578	15,913	18,496	14,830	15,384	14,834
ANTHROPOLOGY	1,533	1,168	1,966	1,717	446	933	333	307
ECONOMICS	5,098	4,933	5,700	3,600	5,820	2,847	2,582	2,954
POLITICAL SCIENCE	511	525	806	650	645	40	61	88
SOCIOLOGY	8,648	9,438	11,616	6,560	8,200	4,008	7,530	6,399
SOCIAL SCIENCES, NEC	1,070	2,442	3,490	3,386	3,385	7,004	4,898	5,088
HISTORY	-	-	-	-	71	200	-	-
LINGUISTICS	-	1,253	1,990	1,743	521	400	-	-
OTHER SOCIAL SCIENCES	1,070	1,189	1,500	1,643	2,793	6,404	-	-
OTHER SCIENCES, NEC	6,755	7,856	8,902	9,013	11,784	13,733	14,208	19,188

1/ DATA SHOWN FOR FISCAL YEARS 1970-78 REPRESENT OBLIGATIONS OF THE DEPARTMENT OF HEALTH, EDUCATION, & WELFARE MINUS DATA FOR THE OFFICE OF EDUCATION, THE NATIONAL INSTITUTE OF EDUCATION, AND THE OFFICE OF THE ASSISTANT SECRETARY FOR EDUCATION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

HHS: ALCOHOL, DRUG ABUSE, & MENTAL HEALTH ADMIN

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	-	-	-	52,555	53,297	66,245	57,557	62,670
LIFE SCIENCES, TOTAL	-	-	-	19,679	26,906	37,456	29,986	33,963
BIOLOGICAL & AGRICULTURAL, TOTAL	-	-	-	15,080	16,327	18,839	22,808	24,422
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	-	-	-	4,599	10,579	16,138	4,859	4,925
CLINICAL MEDICAL	-	-	-	4,599	6,785	10,682	3,233	3,516
OTHER MEDICAL	-	-	-	-	3,794	5,454	1,626	1,409
LIFE SCIENCES, NEC	-	-	-	-	-	2,481	2,319	4,616
PSYCHOLOGY, TOTAL	-	-	-	22,677	19,837	19,074	15,918	18,421
BIOLOGICAL ASPECTS	-	-	-	13,169	12,733	9,002	10,169	11,400
SOCIAL ASPECTS	-	-	-	9,508	7,104	9,370	5,749	7,021
PSYCHOLOGICAL SCIENCES, NEC	-	-	-	-	-	702	-	-
PHYSICAL SCIENCES, TOTAL	-	-	-	1,094	180	323	32	898
CHEMISTRY	-	-	-	1,094	180	323	32	898

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TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

HHS: ALCOHOL, DRUG ABUSE, & MENTAL HEALTH ADMIN

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	-	-	-	208	638	535	335	573
MATHEMATICS	-	-	-	-	-	-	335	573
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	-	-
ENGINEERING, TOTAL	-	-	-	-	-	-	-	-
ENGINEERING, NEC	-	-	-	-	-	-	-	-
SOCIAL SCIENCES, TOTAL	-	-	-	8,897	5,738	7,717	8,087	8,441
ANTHROPOLOGY	-	-	-	1,717	448	933	333	307
ECONOMICS	-	-	-	-	-	40	100	83
POLITICAL SCIENCE	-	-	-	-	-	40	-	86
SOCIOLOGY	-	-	-	5,437	4,698	2,,45	4,904	5,098
SOCIAL SCIENCES, NEC	-	-	-	1,743	592	3,959	730	867
HISTORY	-	-	-	-	71	200	-	-
LINGUISTICS	-	-	-	1,743	521	400	-	-
OTHER SOCIAL SCIENCES	-	-	-	-	-	3,359	-	-
OTHER SCIENCES, NEC	-	-	-	-	-	1,140	219	2,374

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

HHS: NATIONAL INSTITUTES OF HEALTH

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	444,409	503,707	585,700	592,988	775,300	828,520	920,312	1,032,778
LIFE SCIENCES, TOTAL	415,478	470,918	547,572	554,384	724,828	774,583	880,399	985,542
BIOLOGICAL & AGRICULTURAL, TOTAL	246,736	279,658	325,186	329,215	430,448	459,994	510,957	573,397
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	156,032	176,852	205,635	208,190	272,208	290,893	323,121	362,608
OTHER MEDICAL	156,032	176,852	205,635	208,190	272,208	290,893	323,121	362,608
LIFE SCIENCES, NEC	12,710	14,408	16,751	16,959	22,174	23,696	26,321	29,537
PSYCHOLOGY, TOTAL	3,955	4,483	5,213	5,277	6,900	7,374	8,191	9,192
PSYCHOLOGICAL SCIENCES, NEC	3,955	4,483	5,213	5,277	6,900	7,374	8,191	9,192
PHYSICAL SCIENCES, TOTAL	12,310	13,953	16,224	16,425	21,475	22,950	25,493	28,608
CHEMISTRY	11,155	-	14,701	14,883	19,460	20,796	23,100	25,923
PHYSICS	1,155	12,643	1,523	1,542	2,015	2,154	2,393	2,685
PHYSICAL SCIENCES, NEC	-	1,310	-	-	-	-	-	-

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TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

HHS: NATIONAL INSTITUTES OF HEALTH

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	1,244	1,410	1,640	1,660	2,171	2,320	2,577	2,892
MATHEMATICS	-	-	-	-	-	-	2,577	2,892
ENGINEERING, TOTAL	4,000	4,533	5,271	5,337	6,979	7,457	8,283	9,295
ENGINEERING, NEC	4,000	4,533	5,271	5,337	6,979	7,457	8,283	9,295
SOCIAL SCIENCES, TOTAL	667	756	878	890	1,163	1,243	1,380	1,549
SOCIAL SCIENCES, NEC	667	756	878	890	1,163	1,243	1,380	1,549
OTHER SOCIAL SCIENCES	667	756	878	890	1,163	1,243	-	-
OTHER SCIENCES, NEC	6,755	7,658	8,902	9,013	11,784	12,593	13,989	15,698

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF THE INTERIOR

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	39,485	41,711	43,052	48,741	48,681	54,944	54,330	63,579
LIFE SCIENCES, TOTAL	8,886	9,585	8,852	9,805	11,508	10,974	9,709	13,472
BIOLOGICAL & AGRICULTURAL, TOTAL	8,882	9,581	8,836	9,789	11,493	10,955	9,693	13,456
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	-	-	-	11	10	13	10	8
OTHER MEDICAL	-	-	-	11	10	13	10	8
LIFE SCIENCES, NEC	4	4	16	5	5	6	6	8
PHYSICAL SCIENCES, TOTAL	8,218	8,032	10,601	9,493	7,851	3,893	3,889	5,831
CHEMISTRY	7,417	7,204	7,613	6,646	4,975	3,012	3,310	4,407
PHYSICS	801	828	2,988	2,847	2,876	881	559	624
PHYSICAL SCIENCES, NEC	-	-	-	-	-	-	-	800
ENVIRONMENTAL SCIENCES, TOTAL	19,305	19,843	20,430	28,548	25,724	37,703	37,782	38,620
ATMOSPHERIC SCIENCES	40	46	96	118	113	146	116	88
GEOLOGICAL SCIENCES	17,562	18,060	18,311	23,881	22,977	31,422	30,899	32,023
OCEANOGRAPHY	1,689	1,723	1,789	2,310	2,388	5,801	6,399	5,689
ENVIRONMENTAL SCIENCES, NEC	14	14	234	257	246	334	348	820

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TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF THE INTERIOR

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	372	284	327	285	322	382	401	878
MATHEMATICS	-	-	-	-	-	-	58	470
COMPUTER SCIENCES	-	-	-	-	-	-	329	397
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	14	11
ENGINEERING, TOTAL	2,313	2,848	1,035	1,249	1,780	1,285	1,810	4,282
CHEMICAL	82	93	61	143	225	10	8	72
CIVIL	248	283	383	358	351	376	834	474
ELECTRICAL	30	30	48	38	59	46	71	341
MECHANICAL	20	21	5	-	-	-	895	2,493
METALLURGY & MATERIALS	1,783	2,248	500	584	1,071	757	125	308
ENGINEERING, NEC	150	173	58	128	74	96	77	594
SOCIAL SCIENCES, TOTAL	350	1,075	1,444	1,227	1,385	611	532	328
ANTHROPOLOGY	-	704	892	803	957	54	57	4
ECONOMICS	225	226	248	163	157	203	160	124
POLITICAL SCIENCE	45	51	88	147	142	182	145	108
SOCIOLOGY	45	51	81	84	81	109	120	44
SOCIAL SCIENCES, NEC	35	43	135	50	48	63	50	48
HISTORY	-	-	13	-	-	-	-	-
OTHER SOCIAL SCIENCES	35	43	122	50	48	63	-	-
OTHER SCIENCES, NEC	41	44	383	138	131	96	247	188

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

ENVIRONMENTAL PROTECTION AGENCY

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	5,450	6,100	6,118	9,030	9,500	17,400	13,700	8,298
LIFE SCIENCES, TOTAL	2,254	3,520	3,458	4,805	4,992	10,800	8,220	6,074
BIOLOGICAL & AGRICULTURAL, TOTAL	1,471	2,870	2,905	3,855	4,872	9,900	8,220	6,074
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	783	650	553	750	120	700	-	-
OTHER MEDICAL	783	650	553	750	120	700	-	-
PHYSICAL SCIENCES, TOTAL	2,501	2,075	2,140	3,800	3,858	5,100	4,084	1,481
CHEMISTRY	1,572	1,400	1,540	3,200	3,458	4,200	3,757	1,051
PHYSICS	929	675	600	600	400	900	327	410
ENVIRONMENTAL SCIENCES, TOTAL	581	350	370	325	390	1,300	1,096	781
ATMOSPHERIC SCIENCES	452	350	270	275	320	600	110	350
GEOLOGICAL SCIENCES	-	-	-	-	-	700	986	411
OCEANOGRAPHY	-	-	100	50	70	-	-	-
ENVIRONMENTAL SCIENCES, NEC	109	-	-	-	-	-	-	-

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TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

ENVIRONMENTAL PROTECTION AGENCY

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
ENGINEERING, TOTAL	132	155	150	300	280	400	300	-
ASTRONAUTICAL	82	75	80	-	-	-	-	-
CHEMICAL	-	-	35	300	280	400	300	-
MECHANICAL	50	80	55	-	-	-	-	-
SOCIAL SCIENCES, TOTAL	2	-	-	-	-	-	-	-
ECONOMICS	2	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	357,530	327,301	331,611	350,279	305,857	309,335	293,209	413,774
LIFE SCIENCES, TOTAL	28,348	24,090	27,095	30,009	15,731	7,005	8,902	16,195
BIOLOGICAL & AGRICULTURAL, TOTAL	26,764	23,854	25,028	27,816	13,961	4,833	7,598	13,569
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	1,584	238	1,582	1,720	1,298	1,840	952	1,785
CLINICAL MEDICAL	1,584	-	-	-	239	401	272	268
OTHER MEDICAL	-	238	1,582	1,720	1,057	1,439	680	1,517
LIFE SCIENCES, NEC	-	-	485	473	474	332	352	841
PSYCHOLOGY, TOTAL	1,602	285	1,854	1,801	1,878	13,283	980	1,319
BIOLOGICAL ASPECTS	1,602	285	1,126	755	265	1,491	-	806
SOCIAL ASPECTS	-	-	-	100	1,182	3,260	133	90
PSYCHOLOGICAL SCIENCES, NEC	-	-	728	946	429	8,532	827	423
PHYSICAL SCIENCES, TOTAL	147,535	149,892	176,055	160,235	159,726	197,950	182,856	239,592
ASTRONOMY	95,612	88,537	88,952	81,070	89,740	119,710	114,288	138,107
CHEMISTRY	10,263	6,868	15,514	18,013	7,980	6,246	4,733	10,331
PHYSICS	41,660	54,487	71,589	58,515	60,762	67,871	60,249	85,217
PHYSICAL SCIENCES, NEC	-	-	-	2,637	1,244	4,123	3,586	5,937
ENVIRONMENTAL SCIENCES, TOTAL	109,584	104,820	82,512	100,654	88,708	52,011	80,393	103,968
ATMOSPHERIC SCIENCES	65,630	63,743	50,910	67,045	64,614	36,536	37,484	65,721
GEOLOGICAL SCIENCES	43,799	40,951	29,233	29,093	17,858	10,197	17,433	30,880
OCEANOGRAPHY	135	126	175	631	1,332	2,105	2,337	3,612
ENVIRONMENTAL SCIENCES, NEC	-	-	2,194	3,885	4,906	3,173	3,139	3,755

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TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	1,318	723	-	-	411	581	3,172	2,494
MATHEMATICS	-	-	-	-	-	-	-	2,223
COMPUTER SCIENCES	-	-	-	-	-	-	-	271
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	3,172	-
ENGINEERING, TOTAL	68,473	48,687	44,095	56,984	39,405	37,154	35,759	48,803
AERONAUTICAL	32,267	23,845	21,591	31,173	21,185	19,411	19,587	33,266
ASTRONAUTICAL	6,059	3,522	493	848	5,430	5,583	6,630	7,152
CHEMICAL	520	412	971	1,420	61	70	977	885
CIVIL	25	-	-	-	112	57	98	402
ELECTRICAL	8,370	5,285	9,629	10,484	3,844	3,615	2,112	1,783
MECHANICAL	12,254	8,490	4,388	6,282	1,529	591	890	385
METALLURGY & MATERIALS	7,630	5,108	7,025	6,779	6,491	6,681	4,454	3,843
ENGINEERING, NEC	1,348	207	-	-	753	1,188	1,013	1,107
SOCIAL SCIENCES, TOTAL	690	-	-	-	-	65	39	82
ECONOMICS	34	-	-	-	-	3	1	82
POLITICAL SCIENCE	-	-	-	-	-	24	38	-
SOCIOLOGY	-	-	-	-	-	-	-	-
SOCIAL SCIENCES, NEC	656	-	-	-	-	38	-	-
HISTORY	-	-	-	-	-	25	-	-
OTHER SOCIAL SCIENCES	656	-	-	-	-	13	-	-
OTHER SCIENCES, NEC	-	824	-	598	-	1,308	1,128	1,321

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

NATIONAL SCIENCE FOUNDATION

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	244,977	272,588	387,691	392,442	415,217	485,989	523,634	624,900
LIFE SCIENCES, TOTAL	52,682	54,795	67,600	72,610	78,011	91,576	97,593	108,237
BIOLOGICAL & AGRICULTURAL, TOTAL	47,176	51,878	59,747	63,497	75,796	91,576	97,460	107,115
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	5,120	-	7	25	215	-	-	1,122
CLINICAL MEDICAL	4,120	-	7	25	187	-	-	-
OTHER MEDICAL	1,000	-	-	-	28	-	-	1,122
LIFE SCIENCES, NEC	386	2,919	7,846	9,088	-	-	133	-
PSYCHOLOGY, TOTAL	7,600	5,249	6,171	5,531	5,595	8,474	8,249	11,381
BIOLOGICAL ASPECTS	4,210	2,973	3,541	3,307	3,628	6,149	5,697	8,368
SOCIAL ASPECTS	1,430	2,276	2,456	2,224	1,967	2,325	2,552	3,013
PSYCHOLOGICAL SCIENCES, NEC	1,960	-	174	-	-	-	-	-
PHYSICAL SCIENCES, TOTAL	74,649	77,550	108,900	115,239	118,800	137,581	143,471	179,180
ASTRONOMY	19,922	23,238	25,608	27,080	30,208	28,733	31,754	41,585
CHEMISTRY	21,741	21,685	30,171	29,966	33,370	43,439	40,570	54,387
PHYSICS	32,892	32,649	48,985	52,660	55,022	65,409	71,147	83,175
PHYSICAL SCIENCES, NEC	94	-	4,136	5,533	-	-	-	33
ENVIRONMENTAL SCIENCES, TOTAL	53,031	71,502	91,028	86,344	112,280	123,218	120,789	177,627
ATMOSPHERIC SCIENCES	22,973	29,000	33,118	38,090	43,480	44,832	45,410	81,270
GEOLOGICAL SCIENCES	10,288	9,518	11,422	19,174	32,524	36,286	34,463	52,684
OCEANOGRAPHY	19,680	30,988	43,613	23,699	36,276	42,088	40,755	63,682
ENVIRONMENTAL SCIENCES, NEC	90	2,000	2,873	5,381	-	12	181	11

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TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

NATIONAL SCIENCE FOUNDATION

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	17,061	17,236	26,813	22,115	23,239	27,341	32,845	38,985
MATHEMATICS	-	-	-	-	-	-	18,391	21,624
COMPUTER SCIENCES	-	-	-	-	-	-	14,444	17,361
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	10	-
ENGINEERING, TOTAL	21,669	24,037	39,818	40,485	44,438	64,445	61,912	70,424
AERONAUTICAL	520	1,184	1,981	209	884	22	-	588
ASTRONAUTICAL	-	-	24	-	56	-	-	-
CHEMICAL	3,810	4,191	4,330	4,704	5,817	10,848	10,962	9,475
CIVIL	2,738	3,392	2,956	6,107	5,031	4,223	4,427	6,598
ELECTRICAL	4,953	4,795	8,724	10,328	9,622	11,257	14,972	19,495
MECHANICAL	3,811	3,654	4,376	5,166	7,076	6,909	7,123	6,733
METALLURGY & MATERIALS	2,740	4,695	8,486	9,504	11,666	16,088	15,475	17,802
ENGINEERING, NEC	3,099	2,146	8,941	4,467	4,484	15,100	8,953	9,735
SOCIAL SCIENCES, TOTAL	14,234	20,225	26,117	24,689	22,629	27,127	34,217	34,525
ANTHROPOLOGY	3,227	3,999	4,118	3,886	3,913	3,309	3,449	3,924
ECONOMICS	4,111	4,443	4,685	4,622	5,220	6,661	6,998	8,704
POLITICAL SCIENCE	1,554	706	1,395	1,431	1,290	1,381	2,249	2,348
SOCIOLOGY	1,311	2,581	2,969	2,383	1,857	2,444	2,733	3,800
SOCIAL SCIENCES, NEC	4,031	8,496	12,950	12,367	10,349	13,352	18,788	15,949
HISTORY	924	733	878	898	920	818	-	-
LINGUISTICS	1,298	137	94	1,253	1,300	1,320	-	-
OTHER SOCIAL SCIENCES	1,811	7,628	11,980	10,218	8,129	11,214	-	-
OTHER SCIENCES, NEC	4,071	1,972	1,248	25,429	12,427	8,227	24,558	4,541

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

ALL OTHER DEPARTMENTS AND AGENCIES

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	35,760	31,594	34,508	44,378	37,588	43,790	46,443	61,020
LIFE SCIENCES, TOTAL	12,378	8,152	12,845	14,385	14,475	16,396	18,501	21,906
BIOLOGICAL & AGRICULTURAL, TOTAL	8,833	6,117	10,570	12,351	12,089	13,736	12,898	14,749
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	3,545	2,035	2,075	2,014	2,400	2,615	5,512	7,157
CLINICAL MEDICAL	3,245	1,870	1,905	1,249	1,570	1,745	3,682	4,781
OTHER MEDICAL	300	165	170	765	830	870	1,830	2,376
LIFE SCIENCES, NEC	-	-	-	-	-	45	91	-
PSYCHOLOGY, TOTAL	2,887	2,497	1,537	396	434	864	1,548	1,897
BIOLOGICAL ASPECTS	462	332	342	161	189	195	895	975
SOCIAL ASPECTS	2,229	2,165	1,195	235	245	666	651	922
PSYCHOLOGICAL SCIENCES, NEC	196	-	-	-	-	3	-	-
PHYSICAL SCIENCES, TOTAL	3,416	2,833	3,844	3,897	3,966	4,248	4,438	7,316
ASTRONOMY	3,201	2,704	3,747	3,897	3,966	4,248	4,408	5,007
CHEMISTRY	90	33	33	-	-	-	-	2,309
PHYSICS	125	96	64	-	-	-	30	-
ENVIRONMENTAL SCIENCES, TOTAL	855	1,583	1,485	1,711	1,889	1,623	2,207	2,383
ATMOSPHERIC SCIENCES	10	109	97	75	76	85	84	103
GEOLOGICAL SCIENCES	802	1,352	1,326	1,438	1,572	1,390	1,529	1,642
OCEANOGRAPHY	43	102	62	198	241	148	594	638
ENVIRONMENTAL SCIENCES, NEC	-	-	-	-	-	-	-	-

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TABLE 2A. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

ALL OTHER DEPARTMENTS AND AGENCIES

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	181	79	180	-	-	-	-	-
MATHEMATICS	-	-	-	-	-	-	-	-
ENGINEERING, TOTAL	315	341	530	203	560	550	69	90
AERONAUTICAL	16	18	18	-	-	-	-	-
ASTRONAUTICAL	16	18	18	-	-	25	-	-
CHEMICAL	16	18	18	-	-	-	-	-
CIVIL	114	57	353	78	560	224	-	90
ELECTRICAL	30	144	17	-	-	301	19	-
MECHANICAL	32	24	44	-	-	-	-	-
METALLURGY & MATERIALS	16	17	17	-	-	-	-	-
ENGINEERING, NEC	75	45	45	127	-	-	50	-
SOCIAL SCIENCES, TOTAL	15,928	16,059	14,212	23,494	16,085	16,826	19,136	27,279
ANTHROPOLOGY	3,169	2,632	2,891	4,256	2,956	2,688	2,575	3,805
ECONOMICS	2,053	3,176	1,699	1,330	1,199	767	1,233	1,574
POLITICAL SCIENCE	105	28	4	-	42	-	506	-
SOCIOLOGY	1,631	2,578	3,658	1,417	1,863	6,521	3,903	3,188
SOCIAL SCIENCES, NEC	8,970	7,645	5,960	16,491	10,025	6,850	10,919	18,712
HISTORY	3,457	2,838	3,318	3,688	4,788	4,956	-	-
LINGUISTICS	255	175	32	83	1	-	-	-
OTHER SOCIAL SCIENCES	5,258	4,632	2,610	12,740	5,238	1,894	-	-
OTHER SCIENCES, NEC	-	70	75	312	179	3,283	548	149

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

TOTAL, ALL AGENCIES

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	2,600,383	2,778,727	3,269,497	3,710,659	4,205,516	4,688,153	5,038,672	5,550,973
LIFE SCIENCES, TOTAL	1,115,929	1,222,015	1,383,385	1,588,390	1,891,777	2,054,425	2,203,898	2,407,101
BIOLOGICAL & AGRICULTURAL, TOTAL	747,014	818,412	933,574	1,078,679	1,279,290	1,339,434	1,449,001	1,585,454
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	874,485	1,055,525	1,099,856	1,181,086	1,282,848
ENVIRONMENTAL BIOLOGY	-	-	-	64,345	90,802	86,118	91,480	99,148
AGRICULTURAL	-	-	-	139,849	132,963	153,460	176,455	203,482
MEDICAL SCIENCES, TOTAL	342,355	374,381	414,789	467,872	580,110	656,963	698,865	761,474
CLINICAL MEDICAL	38,826	41,562	39,575	-	-	-	-	-
OTHER MEDICAL	303,529	332,819	375,214	-	-	-	-	-
LIFE SCIENCES, NEC	26,560	29,222	35,002	42,039	52,377	58,028	58,032	60,173
PSYCHOLOGY, TOTAL	58,642	45,529	55,717	84,049	75,089	84,208	87,394	98,275
BIOLOGICAL ASPECTS	18,231	18,474	22,526	37,908	28,360	30,180	30,578	31,278
SOCIAL ASPECTS	22,181	16,088	20,043	25,259	33,989	31,259	30,198	36,678
PSYCHOLOGICAL SCIENCES, NEC	18,230	10,989	13,148	20,884	14,720	22,787	26,620	30,321
PHYSICAL SCIENCES, TOTAL	708,959	721,435	889,994	942,385	1,051,038	1,221,880	1,314,413	1,481,331
ASTRONOMY	163,028	159,980	193,321	210,073	280,843	279,420	251,721	289,945
CHEMISTRY	158,848	168,265	208,695	203,380	224,928	257,056	290,474	328,882
PHYSICS	378,973	388,440	467,414	519,401	536,530	669,093	753,424	841,744
PHYSICAL SCIENCES, NEC	8,310	4,770	20,564	9,531	8,937	16,091	18,794	22,760
ENVIRONMENTAL SCIENCES, TOTAL	292,719	305,598	398,311	481,405	488,063	534,213	580,326	615,918
ATMOSPHERIC SCIENCES	121,437	123,588	152,600	170,088	176,423	187,218	181,185	200,120
GEOLOGICAL SCIENCES	88,593	95,705	128,720	145,174	157,667	198,402	211,500	225,139
OCEANOGRAPHY	74,789	78,274	108,314	123,976	122,574	134,294	150,941	175,275
ENVIRONMENTAL SCIENCES, NEC	7,920	8,033	10,677	22,169	11,399	14,299	16,720	15,384

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TABLE 2B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

TOTAL, ALL AGENCIES

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	62,007	81,805	83,408	98,340	104,805	118,[illegible]	138,571	162,731
MATHEMATICS	-	43,176	52,135	56,112	60,216	67,0[illegible]	77,924	94,843
COMPUTER SCIENCES	-	26,594	31,018	40,656	43,345	46,8[illegible]	53,100	59,886
MATHEMATICS & COMPUTER SCIENCES, NEC	-	12,035	255	1,572	1,244	3,218	7,547	8,002
ENGINEERING, TOTAL	262,847	272,799	337,883	370,348	435,053	465,630	520,040	611,840
AERONAUTICAL	30,163	31,988	49,520	66,239	88,437	104,157	115,511	131,389
ASTRONAUTICAL	11,292	11,850	10,180	14,941	25,167	27,184	29,006	32,077
CHEMICAL	16,350	18,425	24,034	24,104	24,611	26,148	28,695	34,078
CIVIL	7,722	7,786	10,356	10,963	14,296	22,110	21,515	27,073
ELECTRICAL	47,766	53,079	55,139	57,645	62,288	70,841	77,563	100,475
MECHANICAL	17,631	20,116	29,628	29,488	35,891	42,227	50,090	63,859
METALLURGY & MATERIALS	99,720	103,273	124,888	134,539	151,117	121,337	141,300	154,869
ENGINEERING, NEC	32,203	28,282	33,938	38,427	33,248	51,628	58,360	68,020
SOCIAL SCIENCES, TOTAL	73,757	86,426	95,513	124,347	129,718	147,180	144,485	125,054
ANTHROPOLOGY	6,984	8,429	8,040	11,957	12,488	14,234	13,430	15,021
ECONOMICS	22,066	25,634	29,085	33,564	32,678	40,010	40,891	35,168
POLITICAL SCIENCE	1,607	2,999	2,544	3,245	4,135	7,403	4,546	2,257
SOCIOLOGY	15,069	16,602	15,936	18,588	18,406	25,377	25,429	20,933
SOCIAL SCIENCES, NEC	28,031	34,762	39,908	56,993	62,013	60,158	60,189	51,877
HISTORY	5,999	-	-	-	-	-	-	-
LINGUISTICS	2,108	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	19,924	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	25,523	43,120	25,508	35,397	49,993	63,911	67,545	48,723

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF AGRICULTURE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	154,184	171,371	204,450	242,704	256,420	275,650	319,260	382,893
LIFE SCIENCES, TOTAL	108,885	121,685	144,389	182,504	193,643	207,817	240,247	275,621
BIOLOGICAL & AGRICULTURAL, TOTAL	107,146	119,715	142,201	178,925	191,014	204,988	237,125	272,014
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	28,122	35,148	32,671	37,088	42,624
ENVIRONMENTAL BIOLOGY	-	-	-	10,954	22,905	20,729	23,784	26,153
AGRICULTURAL	-	-	-	139,849	132,963	151,588	176,255	203,237
MEDICAL SCIENCES, TOTAL	1,739	1,950	2,188	2,288	2,629	2,829	3,122	3,607
CLINICAL MEDICAL	1,739	1,950	2,188	-	-	-	-	-
OTHER MEDICAL	-	-	-	-	-	-	-	-
LIFE SCIENCES, NEC	-	-	-	1,291	-	-	-	-
PSYCHOLOGY, TOTAL	-	23	28	31	31	34	37	40
SOCIAL ASPECTS	-	23	28	31	31	34	37	40
PHYSICAL SCIENCES, TOTAL	19,955	21,548	27,458	25,400	23,775	25,787	30,440	33,711
CHEMISTRY	17,235	18,506	23,941	23,583	22,254	24,032	28,408	31,474
PHYSICS	2,720	3,040	3,517	1,817	1,521	1,735	2,032	2,237
PHYSICAL SCIENCES, NEC	-	-	-	-	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	2,864	3,301	4,384	4,287	4,219	4,377	4,910	5,419
ATMOSPHERIC SCIENCES	252	1,474	1,871	2,231	2,061	2,231	2,545	2,822
GEOLOGICAL SCIENCES	233	1,135	1,672	2,056	2,158	2,146	2,365	2,597
ENVIRONMENTAL SCIENCES, NEC	1,379	692	841	-	-	-	-	-

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TABLE 2B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF AGRICULTURE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	1,042	1,350	917	1,165	1,137	857	989	1,068
MATHEMATICS	-	1,350	917	1,165	1,137	857	989	1,068
ENGINEERING, TOTAL	8,954	9,489	11,512	12,458	13,280	14,465	16,721	18,527
CHEMICAL	506	449	651	689	1,450	1,395	1,580	1,713
CIVIL	1,451	1,540	2,105	2,228	1,234	1,261	1,464	1,611
ELECTRICAL	27	54	101	87	179	158	190	210
MECHANICAL	388	435	500	485	956	1,125	1,265	1,389
ENGINEERING, NEC	6,582	7,011	8,155	8,969	9,461	10,526	12,242	13,604
SOCIAL SCIENCES, TOTAL	12,484	13,997	15,784	16,859	20,335	22,333	25,936	28,509
ANTHROPOLOGY	-	-	-	2	-	4	5	6
ECONOMICS	11,574	13,005	14,413	15,078	18,241	19,886	23,128	25,453
POLITICAL SCIENCE	-	-	-	-	-	-	-	-
SOCIOLOGY	814	885	1,238	1,557	1,830	2,343	2,677	2,919
SOCIAL SCIENCES, NEC	98	107	113	224	264	100	126	131
HISTORY	-	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	98	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF COMMERCE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	20,065	22,274	23,159	23,861	24,751	29,907	32,210	38,670
LIFE SCIENCES, TOTAL	-	-	160	-	-	-	-	-
BIOLOGICAL & AGRICULTURAL, TOTAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	-	-	160	-	-	-	-	-
OTHER MEDICAL	-	-	160	-	-	-	-	-
PSYCHOLOGY, TOTAL	80	42	45	109	128	104	119	119
BIOLOGICAL ASPECTS	-	-	-	-	-	-	-	-
SOCIAL ASPECTS	80	42	45	109	128	104	119	119
PHYSICAL SCIENCES, TOTAL	4,379	4,767	8,191	8,636	8,931	12,385	13,981	15,884
ASTRONOMY	368	346	357	731	534	531	419	430
CHEMISTRY	1,123	1,325	2,831	1,021	1,729	2,340	2,657	2,915
PHYSICS	2,888	3,096	5,003	4,884	6,668	9,514	10,885	12,539
PHYSICAL SCIENCES, NEC	-	-	-	-	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	11,956	11,273	10,857	10,127	10,804	11,903	12,370	14,072
ATMOSPHERIC SCIENCES	10,398	9,579	9,136	6,811	7,276	8,220	8,426	9,466
GEOLOGICAL SCIENCES	-	-	-	60	64	67	72	84
OCEANOGRAPHY	1,558	1,694	1,721	3,256	3,464	3,616	3,872	4,522

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TABLE 2B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF COMMERCE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	127	140	155	1,001	1,413	1,921	2,591	3,093
MATHEMATICS	-	140	155	639	924	1,019	1,389	1,672
COMPUTER SCIENCES	-	-	-	362	489	902	1,131	1,346
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	71	75
ENGINEERING, TOTAL	2,812	2,311	2,551	3,298	2,975	3,294	2,969	3,502
AERONAUTICAL	-	-	-	-	-	-	-	-
CHEMICAL	-	-	48	-	251	-	-	-
CIVIL	531	640	360	931	1,152	2,147	860	588
ELECTRICAL	232	261	360	510	493	255	272	334
MECHANICAL	100	145	120	433	465	102	350	350
METALLURGY & MATERIALS	903	942	717	-	311	752	1,099	1,628
ENGINEERING, NEC	1,046	323	946	1,424	303	38	388	622
SOCIAL SCIENCES, TOTAL	11	1,675	1,200	2,690	500	300	200	-
ECONOMICS	11	1,675	1,200	2,690	500	300	200	-
OTHER SCIENCES, NEC	700	2,066	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 28. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF DEFENSE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	300,065	326,885	373,254	410,410	471,527	540,341	612,925	721,990
LIFE SCIENCES, TOTAL	36,197	42,374	43,397	50,567	61,743	48,704	55,303	70,925
BIOLOGICAL & AGRICULTURAL, TOTAL	8,996	4,682	12,770	15,048	17,314	20,184	23,783	29,953
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	12,233	14,083	15,938	19,383	23,652
ENVIRONMENTAL BIOLOGY	-	-	-	2,815	3,231	4,248	4,400	6,301
MEDICAL SCIENCES, TOTAL	27,201	37,692	30,627	34,806	44,429	28,520	31,540	40,972
CLINICAL MEDICAL	23,041	32,140	24,613	-	-	-	-	-
OTHER MEDICAL	4,160	5,552	6,014	-	-	-	-	-
LIFE SCIENCES, NEC	-	-	-	713	-	-	-	-
PSYCHOLOGY, TOTAL	9,493	10,600	13,438	18,742	20,505	18,490	19,769	28,529
BIOLOGICAL ASPECTS	1,394	1,713	977	768	580	284	540	408
SOCIAL ASPECTS	6,480	6,936	8,928	10,848	19,925	16,542	16,276	22,877
PSYCHOLOGICAL SCIENCES, NEC	1,619	1,951	3,533	7,128	-	1,684	2,953	3,244
PHYSICAL SCIENCES, TOTAL	69,688	63,478	97,638	98,135	119,387	167,131	193,048	208,040
ASTRONOMY	9,969	9,164	8,265	9,205	11,539	11,696	13,279	15,425
CHEMISTRY	13,080	19,114	20,875	24,483	28,611	35,672	42,820	50,888
PHYSICS	44,902	34,016	54,702	62,147	79,051	111,168	127,818	130,543
PHYSICAL SCIENCES, NEC	1,737	1,184	13,794	2,320	186	8,595	9,129	11,184
ENVIRONMENTAL SCIENCES, TOTAL	59,675	85,903	58,171	69,832	74,710	83,170	82,414	103,359
ATMOSPHERIC SCIENCES	27,588	29,329	14,081	17,880	15,389	18,721	20,580	25,410
GEOLOGICAL SCIENCES	5,996	8,388	5,868	8,282	11,462	19,164	13,228	15,425
OCEANOGRAPHY	23,069	28,495	30,992	35,351	39,616	37,410	40,294	52,179
ENVIRONMENTAL SCIENCES, NEC	3,022	3,693	5,250	8,119	8,283	7,875	8,332	10,342

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TABLE 28. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF DEFENSE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	24,167	35,033	29,675	38,388	44,385	47,345	63,855	71,600
MATHEMATICS	-	16,463	18,836	21,453	23,205	24,094	30,661	38,433
COMPUTER SCIENCES	-	9,731	10,595	15,401	20,221	20,393	26,014	25,659
MATHEMATICS & COMPUTER SCIENCES, NEC	-	8,839	244	1,532	939	2,858	7,180	7,508
ENGINEERING, TOTAL	98,864	107,684	131,299	131,382	147,575	169,737	191,844	237,153
AERONAUTICAL	10,730	12,401	15,666	18,185	21,338	27,519	30,915	37,908
ASTRONAUTICAL	5,684	5,220	3,028	2,853	-	-	-	-
CHEMICAL	4,518	5,729	11,830	9,092	7,527	9,510	9,220	11,940
CIVIL	860	249	329	599	811	1,546	1,922	4,566
ELECTRICAL	32,288	35,590	33,059	34,469	40,358	46,663	50,085	67,807
MECHANICAL	9,643	10,828	19,417	18,655	21,052	23,738	27,178	34,784
METALLURGY & MATERIALS	34,385	37,095	43,864	44,760	54,255	57,346	69,680	76,472
ENGINEERING, NEC	756	572	4,106	2,769	2,238	3,415	2,888	3,678
SOCIAL SCIENCES, TOTAL	1,803	1,446	1,501	1,651	1,958	4,434	4,421	4,203
ANTHROPOLOGY	-	15	-	-	-	-	-	-
ECONOMICS	-	-	34	94	-	-	-	-
POLITICAL SCIENCE	-	-	-	-	-	1,174	676	498
SOCIOLOGY	1,175	1,431	1,467	1,557	1,892	1,933	2,989	2,155
SOCIAL SCIENCES, NEC	628	-	-	-	66	1,327	756	1,552
LINGUISTICS	388	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	240	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	178	387	139	1,915	1,284	1,330	2,273	184

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF ENERGY 1/

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	312,758	345,790	389,450	440,534	482,968	523,136	594,696	681,712
LIFE SCIENCES, TOTAL	21,039	24,381	25,821	29,744	27,458	29,377	31,689	35,800
BIOLOGICAL & AGRICULTURAL, TOTAL	21,039	24,381	25,821	29,744	27,458	29,177	31,489	35,600
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	29,744	27,458	29,177	31,489	35,600
LIFE SCIENCES, NEC	-	-	-	-	-	200	200	200
PHYSICAL SCIENCES, TOTAL	242,892	267,401	293,823	325,387	345,607	432,140	490,452	580,953
CHEMISTRY	49,194	53,818	61,742	47,933	57,711	62,108	70,921	79,839
PHYSICS	191,248	213,583	232,081	277,454	287,746	369,232	418,031	479,914
PHYSICAL SCIENCES, NEC	2,450	-	-	-	150	800	1,500	1,200
ENVIRONMENTAL SCIENCES, TOTAL	2,369	2,874	3,540	3,960	8,193	8,228	9,780	11,600
ATMOSPHERIC SCIENCES	-	-	-	-	-	-	-	-
GEOLOGICAL SCIENCES	2,369	2,874	3,540	3,960	8,143	7,728	9,280	11,300
OCEANOGRAPHY	-	-	-	-	-	-	-	-
ENVIRONMENTAL SCIENCES, NEC	-	-	-	-	50	500	500	300

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TABLE 28. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF ENERGY 1/

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	5,532	5,952	6,839	7,398	8,634	10,196	11,365	13,300
MATHEMATICS	-	3,862	4,445	4,809	5,612	7,176	8,385	9,600
COMPUTER SCIENCES	-	2,090	2,394	2,589	3,022	3,020	2,980	3,700
ENGINEERING, TOTAL	40,928	45,182	59,427	69,241	75,062	42,567	50,195	59,471
CHEMICAL	-	-	1,073	1,290	1,531	211	1,210	1,297
ELECTRICAL	-	-	-	-	498	377	420	504
MECHANICAL	-	-	-	-	384	2,158	3,408	5,800
METALLURGY & MATERIALS	40,928	45,182	58,354	67,951	72,440	34,816	38,828	43,970
ENGINEERING, NEC	-	-	-	-	211	5,005	6,333	7,900
OTHER SCIENCES, NEC	-	-	-	4,804	14	630	1,215	588

1/ DATA SHOWN FOR FISCAL YEARS 1970-73 AND FISCAL YEARS 1974-76 REPRESENT OBLIGATIONS OF THE ATOMIC ENERGY COMMISSION AND THE ENERGY RESEARCH & DEVELOPMENT ADMINISTRATION, RESPECTIVELY.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 28. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF HEALTH & HUMAN SERVICES 1/

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	901,853	981,091	1,107,615	1,274,063	1,576,011	1,762,668	1,871,632	2,018,970
LIFE SCIENCES, TOTAL	813,257	890,670	1,003,714	1,154,142	1,424,105	1,562,818	1,660,410	1,795,556
BIOLOGICAL & AGRICULTURAL, TOTAL	478,833	533,765	597,819	692,367	871,516	893,023	952,238	1,029,672
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	692,367	871,516	892,977	952,238	1,029,672
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	46	-	-
MEDICAL SCIENCES, TOTAL	308,247	328,265	371,742	423,658	504,166	614,338	652,771	708,461
CLINICAL MEDICAL	11,900	3,518	7,725	-	-	-	-	-
OTHER MEDICAL	296,347	324,747	364,017	-	-	-	-	-
LIFE SCIENCES, NEC	26,177	28,640	34,153	38,119	48,423	55,457	55,403	57,423
PSYCHOLOGY, TOTAL	26,448	24,109	27,813	35,272	40,098	49,721	51,284	58,916
BIOLOGICAL ASPECTS	9,002	10,169	11,400	15,766	15,938	19,506	18,144	20,882
SOCIAL ASPECTS	9,370	5,749	7,021	9,056	10,038	10,328	10,428	11,162
PSYCHOLOGICAL SCIENCES, NEC	8,076	8,191	9,192	10,450	14,122	19,887	22,692	24,872
PHYSICAL SCIENCES, TOTAL	23,273	25,525	29,508	32,936	40,733	53,727	58,950	61,447
CHEMISTRY	21,119	23,132	26,821	29,827	36,676	47,406	50,317	54,289
PHYSICS	2,154	2,393	2,685	3,109	4,057	6,321	6,633	7,158
PHYSICAL SCIENCES, NEC	-	-	-	-	-	-	-	-

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TABLE 2B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF HEALTH & HUMAN SERVICES 1/

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	2,855	2,912	3,485	3,651	3,663	4,874	5,051	5,443
MATHEMATICS	-	2,912	3,485	3,651	3,398	4,678	4,888	5,274
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	265	196	163	169
ENGINEERING, TOTAL	7,457	8,283	9,295	10,753	13,897	26,009	27,615	29,797
ENGINEERING, NEC	7,457	8,283	9,295	10,753	13,897	26,009	27,615	29,797
SOCIAL SCIENCES, TOTAL	14,830	15,384	14,834	19,290	28,347	34,237	37,180	31,578
ANTHROPOLOGY	933	333	307	313	288	412	394	398
ECONOMICS	2,847	2,562	2,954	3,784	2,189	2,948	3,293	1,566
POLITICAL SCIENCE	40	61	88	76	343	508	580	281
SOCIOLOGY	4,006	7,530	6,399	7,864	9,740	13,655	13,734	12,601
SOCIAL SCIENCES, NEC	7,004	4,898	5,086	7,253	15,787	16,714	19,179	16,734
HISTORY	200	-	-	-	-	-	-	-
LINGUISTICS	400	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	6,404	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	13,733	14,208	19,188	18,019	25,188	31,282	33,182	36,233

1/ DATA SHOWN FOR FISCAL YEARS 1970-78 REPRESENT OBLIGATIONS OF THE DEPARTMENT OF HEALTH, EDUCATION, & WELFARE MINUS DATA FOR THE OFFICE OF EDUCATION, THE NATIONAL INSTITUTE OF EDUCATION, AND THE OFFICE OF THE ASSISTANT SECRETARY FOR EDUCATION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

HHS: ALCOHOL, DRUG ABUSE, & MENTAL HEALTH ADMIN

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	68,245	52,557	62,670	79,917	94,622	104,736	107,846	124,138
LIFE SCIENCES, TOTAL	37,456	29,888	33,963	47,113	56,745	59,731	63,240	73,901
BIOLOGICAL & AGRICULTURAL, TOTAL	18,839	22,808	24,422	36,589	44,183	43,442	46,213	54,150
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	36,589	44,183	43,396	46,213	54,150
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	46	-	-
MEDICAL SCIENCES, TOTAL	16,136	4,859	4,925	6,157	6,097	9,159	9,946	12,707
CLINICAL MEDICAL	10,682	3,233	3,516	-	-	-	-	-
OTHER MEDICAL	5,454	1,626	1,409	-	-	-	-	-
LIFE SCIENCES, NEC	2,481	2,319	4,616	4,367	6,465	7,130	7,081	7,044
PSYCHOLOGY, TOTAL	19,074	15,918	18,421	24,822	28,122	30,035	30,316	34,312
BIOLOGICAL ASPECTS	9,002	10,169	11,400	15,766	15,938	19,506	18,144	20,882
SOCIAL ASPECTS	9,370	5,749	7,021	9,056	10,038	10,328	10,428	11,162
PSYCHOLOGICAL SCIENCES, NEC	702	-	-	-	146	201	1,744	2,288
PHYSICAL SCIENCES, TOTAL	323	32	898	214	400	771	741	793
CHEMISTRY	323	32	898	214	400	771	741	793

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TABLE 28. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

HHS: ALCOHOL, DRUG ABUSE, & MENTAL HEALTH ADMIN

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	535	335	573	302	285	196	183	189
MATHEMATICS	-	335	573	302	-	-	-	-
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	285	196	183	189
ENGINEERING, TOTAL	-	-	-	73	73	36	34	35
ENGINEERING, NEC	-	-	-	73	73	36	34	35
SOCIAL SCIENCES, TOTAL	7,717	6,067	6,441	7,289	9,253	12,175	11,612	12,601
ANTHROPOLOGY	933	333	307	313	288	412	394	396
ECONOMICS	40	100	83	99	147	36	28	27
POLITICAL SCIENCE	40	-	88	60	147	216	209	211
SOCIOLOGY	2,745	4,904	5,098	6,118	7,677	10,045	9,564	10,483
SOCIAL SCIENCES, NEC	3,959	730	867	701	994	1,466	1,419	1,484
HISTORY	200	-	-	-	-	-	-	-
LINGUISTICS	400	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	3,359	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	1,140	219	2,374	104	1,784	1,792	1,740	2,327

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 28. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

HHS: NATIONAL INSTITUTES OF HEALTH

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	828,520	920,312	1,032,776	1,181,094	1,483,703	1,642,341	1,745,645	1,883,650
LIFE SCIENCES, TOTAL	774,583	860,399	985,542	1,104,170	1,365,372	1,501,055	1,595,520	1,721,655
BIOLOGICAL & AGRICULTURAL, TOTAL	459,994	510,957	573,397	655,778	827,333	849,581	906,023	975,522
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	655,778	827,333	849,581	906,023	975,522
MEDICAL SCIENCES, TOTAL	290,893	323,121	382,608	414,640	498,081	603,147	641,175	695,754
OTHER MEDICAL	290,893	323,121	382,608	-	-	-	-	-
LIFE SCIENCES, NEC	23,696	26,321	29,537	33,752	41,958	48,327	48,322	50,379
PSYCHOLOGY, TOTAL	7,374	8,191	9,192	10,450	13,976	19,686	20,948	22,604
PSYCHOLOGICAL SCIENCES, NEC	7,374	8,191	9,192	10,450	13,976	19,686	20,948	22,604
PHYSICAL SCIENCES, TOTAL	22,950	25,493	28,608	32,722	40,333	52,956	58,209	60,654
CHEMISTRY	20,796	23,100	25,923	29,613	36,276	46,635	49,578	53,498
PHYSICS	2,154	2,393	2,685	3,109	4,057	6,321	8,633	7,158
PHYSICAL SCIENCES, NEC	-	-	-	-	-	-	-	-

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TABLE 28. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

HHS: NATIONAL INSTITUTES OF HEALTH

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	2,320	2,577	2,892	3,349	3,398	4,678	4,888	5,274
MATHEMATICS	-	2,577	2,892	3,349	3,398	4,678	4,888	5,274
ENGINEERING, TOTAL	7,457	8,283	9,295	10,680	13,824	25,973	27,581	29,762
ENGINEERING, NEC	7,457	8,283	9,295	10,680	13,824	25,973	27,581	29,762
SOCIAL SCIENCES, TOTAL	1,243	1,380	1,549	1,808	3,398	8,503	9,077	9,795
SOCIAL SCIENCES, NEC	1,243	1,380	1,549	1,808	3,398	8,503	9,077	9,795
OTHER SOCIAL SCIENCES	1,243	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	12,593	13,989	15,698	17,915	23,404	29,490	31,422	33,908

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF THE INTERIOR

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	54,944	54,330	63,579	65,878	72,522	71,634	77,343	79,246
LIFE SCIENCES, TOTAL	10,974	9,709	13,472	5,100	4,300	4,651	4,244	3,723
BIOLOGICAL & AGRICULTURAL, TOTAL	10,955	9,693	13,456	5,070	4,270	4,599	4,226	3,723
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	5,070	4,270	4,599	4,226	3,723
MEDICAL SCIENCES, TOTAL	13	10	8	15	15	26	9	-
OTHER MEDICAL	13	10	8	-	-	-	-	-
LIFE SCIENCES, NEC	6	6	8	15	15	26	9	-
PHYSICAL SCIENCES, TOTAL	3,893	3,869	5,831	7,882	9,131	7,524	8,311	8,563
CHEMISTRY	3,012	3,310	4,407	5,869	6,496	5,323	5,958	6,325
PHYSICS	881	559	624	613	935	1,001	1,153	1,038
PHYSICAL SCIENCES, NEC	-	-	800	1,400	1,700	1,200	1,200	1,200
ENVIRONMENTAL SCIENCES, TOTAL	37,703	37,762	38,620	45,113	48,596	48,800	55,423	58,217
ATMOSPHERIC SCIENCES	146	118	88	150	150	214	82	-
GEOLOGICAL SCIENCES	31,422	30,899	32,023	38,861	45,837	44,558	49,551	54,950
OCEANOGRAPHY	5,801	6,399	5,689	4,814	1,651	2,265	2,482	3,025
ENVIRONMENTAL SCIENCES, NEC	334	348	820	1,288	958	1,743	3,308	242

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TABLE 28. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF THE INTERIOR

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	382	401	878	1,417	2,115	1,865	1,990	1,879
MATHEMATICS	-	58	470	800	986	686	710	704
COMPUTER SCIENCES	-	329	397	577	1,089	1,120	1,267	1,175
MATHEMATICS & COMPUTER SCIENCES, NEC	-	14	11	40	40	59	13	-
ENGINEERING, TOTAL	1,285	1,810	4,282	5,538	6,965	6,892	6,303	6,330
CHEMICAL	10	8	72	200	100	287	111	-
CIVIL	376	834	474	539	500	596	243	10
ELECTRICAL	46	71	341	493	500	401	390	370
MECHANICAL	-	695	2,493	1,004	400	300	300	300
METALLURGY & MATERIALS	757	125	308	2,405	4,520	4,229	4,662	1,100
ENGINEERING, NEC	96	77	594	895	945	1,079	597	4,550
SOCIAL SCIENCES, TOTAL	611	532	328	500	1,130	1,417	831	484
ANTHROPOLOGY	54	57	4	-	-	-	-	-
ECONOMICS	203	160	124	200	830	986	685	484
POLITICAL SCIENCE	182	145	108	200	200	287	110	-
SOCIOLOGY	105	120	44	50	50	72	28	-
SOCIAL SCIENCES, NEC	63	50	48	50	50	72	28	-
HISTORY	-	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	63	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	96	247	188	328	285	485	241	50

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

ENVIRONMENTAL PROTECTION AGENCY

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	17,400	13,700	8,296	6,010	10,100	13,600	14,200	13,800
LIFE SCIENCES, TOTAL	10,600	8,220	6,074	4,022	7,144	9,025	6,155	5,528
BIOLOGICAL & AGRICULTURAL, TOTAL	9,900	8,220	6,074	4,022	7,144	9,025	6,155	5,528
ENVIRONMENTAL BIOLOGY	-	-	-	4,022	7,144	7,283	6,155	5,528
AGRICULTURAL	-	-	-	-	-	1,742	-	-
MEDICAL SCIENCES, TOTAL	700	-	-	-	-	-	-	-
OTHER MEDICAL	700	-	-	-	-	-	-	-
PHYSICAL SCIENCES, TOTAL	5,100	4,084	1,461	1,683	1,784	2,259	4,470	5,693
CHEMISTRY	4,200	3,757	1,051	1,346	1,784	2,259	4,470	5,693
PHYSICS	900	327	410	337	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	1,300	1,096	761	305	1,172	2,316	3,250	1,992
ATMOSPHERIC SCIENCES	600	110	350	305	1,172	1,077	1,875	1,992
GEOLOGICAL SCIENCES	700	988	411	-	-	1,039	1,375	-
OCEANOGRAPHY	-	-	-	-	-	200	-	-
ENVIRONMENTAL SCIENCES, NEC	-	-	-	-	-	-	-	-

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TABLE 28. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

ENVIRONMENTAL PROTECTION AGENCY

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
ENGINEERING, TOTAL	400	300	-	-	-	-	325	587
ASTRONAUTICAL	-	-	-	-	-	-	-	-
CHEMICAL	400	300	-	-	-	-	325	587
MECHANICAL	-	-	-	-	-	-	-	-
SOCIAL SCIENCES, TOTAL	-	-	-	-	-	-	-	-
ECONOMICS	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	309,335	293,209	413,774	479,729	512,847	559,113	540,394	593,018
LIFE SCIENCES, TOTAL	7,005	8,902	16,195	17,678	15,029	13,742	13,772	14,638
BIOLOGICAL & AGRICULTURAL, TOTAL	4,833	7,598	13,569	17,678	11,815	10,243	10,022	10,738
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	17,678	11,471	9,823	9,572	10,238
ENVIRONMENTAL BIOLOGY	-	-	-	-	344	340	350	375
AGRICULTURAL	-	-	-	-	-	80	100	125
MEDICAL SCIENCES, TOTAL	1,840	952	1,785	-	1,244	1,317	1,400	1,450
CLINICAL MEDICAL	401	272	268	-	-	-	-	-
OTHER MEDICAL	1,439	680	1,517	-	-	-	-	-
LIFE SCIENCES, NEC	332	352	841	-	1,970	2,182	2,350	2,450
PSYCHOLOGY, TOTAL	13,283	980	1,319	17,015	484	649	700	750
BIOLOGICAL ASPECTS	1,491	-	808	14,527	88	97	100	115
SOCIAL ASPECTS	3,260	133	90	82	90	105	125	135
PSYCHOLOGICAL SCIENCES, NEC	8,532	827	423	2,408	308	447	475	500
PHYSICAL SCIENCES, TOTAL	197,950	182,856	239,592	243,099	292,495	309,019	283,322	320,981
ASTRONOMY	119,710	114,288	138,107	147,108	210,838	225,110	191,660	223,809
CHEMISTRY	6,246	4,733	10,331	8,936	5,281	5,243	6,511	4,795
PHYSICS	67,871	60,249	85,217	81,265	69,584	73,309	78,631	83,718
PHYSICAL SCIENCES, NEC	4,123	3,586	5,937	5,792	6,794	5,357	6,520	8,659
ENVIRONMENTAL SCIENCES, TOTAL	52,011	60,393	103,988	126,690	103,068	119,070	115,198	118,845
ATMOSPHERIC SCIENCES	36,536	37,484	65,721	71,623	71,207	79,856	68,509	74,179
GEOLOGICAL SCIENCES	10,197	17,433	30,880	31,224	26,533	31,391	38,783	33,395
OCEANOGRAPHY	2,105	2,337	3,612	11,138	3,333	3,851	3,704	4,921
ENVIRONMENTAL SCIENCES, NEC	3,173	3,139	3,755	12,705	1,995	3,972	4,200	4,350

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TABLE 28. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	561	3,172	2,494	1,973	1,082	1,847	2,000	2,100
MATHEMATICS	-	-	2,223	675	814	1,163	1,260	1,300
COMPUTER SCIENCES	-	-	271	1,298	140	579	620	650
MATHEMATICS & COMPUTER SCIENCES, NEC	-	3,172	-	-	-	105	120	150
ENGINEERING, TOTAL	27,154	35,759	48,803	72,201	98,902	113,294	123,804	136,004
AERONAUTICAL	19,411	19,587	33,266	47,472	66,174	75,590	83,498	92,077
ASTRONAUTICAL	5,583	6,630	7,152	12,088	25,167	27,184	29,006	32,077
CHEMICAL	70	977	885	2,302	62	173	200	225
CIVIL	57	96	402	10	55	55	65	75
ELECTRICAL	3,615	2,112	1,783	2,272	1,694	1,900	2,060	2,150
MECHANICAL	591	890	365	2,189	934	1,448	1,575	1,650
METALLURGY & MATERIALS	6,661	4,454	3,843	4,601	3,186	5,080	5,500	5,750
ENGINEERING, NEC	1,166	1,013	1,107	1,267	1,630	1,864	1,900	2,000
SOCIAL SCIENCES, TOTAL	65	39	82	5	134	187	200	225
ECONOMICS	3	1	82	-	-	22	25	30
POLITICAL SCIENCE	24	38	-	-	-	-	-	-
SOCIOLOGY	-	-	-	-	-	25	25	30
SOCIAL SCIENCES, NEC	38	-	-	5	134	140	150	185
HISTORY	25	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	13	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	1,306	1,128	1,321	1,088	1,873	1,305	1,400	1,475

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 2B. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

NATIONAL SCIENCE FOUNDATION

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	485,989	523,634	624,900	678,040	733,255	815,248	873,640	945,444
LIFE SCIENCES, TOTAL	91,576	97,593	108,237	121,801	133,184	148,780	161,730	172,858
BIOLOGICAL & AGRICULTURAL, TOTAL	91,576	97,460	107,115	119,900	131,215	148,617	161,660	172,758
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	82,016	83,882	105,365	115,914	124,065
ENVIRONMENTAL BIOLOGY	-	-	-	37,884	47,333	43,202	45,646	48,593
AGRICULTURAL	-	-	-	-	-	50	100	100
MEDICAL SCIENCES, TOTAL	-	-	1,122	-	-	-	-	-
CLINICAL MEDICAL	-	-	-	-	-	-	-	-
OTHER MEDICAL	-	-	1,122	-	-	-	-	-
LIFE SCIENCES, NEC	-	133	-	1,901	1,989	183	70	100
PSYCHOLOGY, TOTAL	8,474	8,249	11,381	9,209	11,882	11,875	10,385	7,030
BIOLOGICAL ASPECTS	6,149	5,697	8,368	5,838	8,587	8,136	7,545	5,900
SOCIAL ASPECTS	2,325	2,552	3,013	3,371	3,255	3,739	2,820	1,130
PSYCHOLOGICAL SCIENCES, NEC	-	-	-	-	40	-	-	-
PHYSICAL SCIENCES, TOTAL	137,581	143,471	179,180	189,750	197,084	198,604	219,548	254,224
ASTRONOMY	28,733	31,754	41,585	46,614	51,084	34,487	38,083	41,748
CHEMISTRY	43,439	40,570	54,387	56,686	60,317	68,385	74,012	87,364
PHYSICS	65,409	71,147	83,175	86,431	85,576	95,593	107,008	124,597
PHYSICAL SCIENCES, NEC	-	-	33	19	107	139	445	517
ENVIRONMENTAL SCIENCES, TOTAL	123,218	120,789	177,627	198,594	218,403	253,223	273,401	300,859
ATMOSPHERIC SCIENCES	44,832	45,410	81,270	70,928	79,082	78,784	79,044	88,113
GEOLOGICAL SCIENCES	36,286	34,463	52,684	58,939	63,532	90,195	94,572	104,982
OCEANOGRAPHY	42,088	40,755	83,662	68,670	73,656	86,110	99,655	109,634
ENVIRONMENTAL SCIENCES, NEC	12	161	11	57	133	134	130	150

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TABLE 28. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

NATIONAL SCIENCE FOUNDATION

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	27,341	32,845	38,985	43,349	42,416	47,789	50,499	63,988
MATHEMATICS	-	18,391	21,624	22,920	24,040	27,186	29,411	36,532
COMPUTER SCIENCES	-	14,444	17,361	20,429	18,376	20,603	21,088	27,356
MATHEMATICS & COMPUTER SCIENCES, NEC	-	10	-	-	-	-	-	100
ENGINEERING, TOTAL	64,445	61,912	70,424	69,791	76,397	89,372	99,764	120,469
AERONAUTICAL	22	-	588	582	927	1,048	1,098	1,406
ASTRONAUTICAL	-	-	-	-	-	-	-	-
CHEMICAL	10,846	10,962	9,475	9,231	13,690	14,572	16,069	18,316
CIVIL	4,223	4,427	6,596	6,589	10,544	16,505	16,961	20,243
ELECTRICAL	11,257	14,972	19,495	19,814	18,568	21,087	24,166	29,100
MECHANICAL	6,909	7,123	6,733	6,715	11,700	13,356	15,518	19,586
METALLURGY & MATERIALS	16,088	15,475	17,802	14,822	16,405	19,114	21,533	25,949
ENGINEERING, NEC	15,100	8,953	9,735	12,038	4,563	3,690	4,419	5,869
SOCIAL SCIENCES, TOTAL	27,127	34,217	34,525	36,425	34,440	36,844	29,179	15,923
ANTHROPOLOGY	3,309	3,449	3,924	5,948	6,659	6,812	6,435	5,480
ECONOMICS	6,661	6,998	8,704	10,405	9,480	10,297	7,790	3,075
POLITICAL SCIENCE	1,361	2,249	2,348	2,969	3,267	3,544	2,680	980
SOCIOLOGY	2,444	2,733	3,600	3,601	3,358	4,300	3,283	1,662
SOCIAL SCIENCES, NEC	13,352	18,788	15,949	13,502	11,696	11,891	8,991	4,746
HISTORY	818	-	-	-	-	-	-	-
LINGUISTICS	1,320	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	11,214	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	6,227	24,558	4,541	9,121	21,489	28,779	29,154	10,093

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 28. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

ALL OTHER DEPARTMENTS AND AGENCIES

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	43,790	46,443	61,020	89,432	85,115	96,858	100,372	99,230
LIFE SCIENCES, TOTAL	16,396	18,501	21,906	22,832	25,171	29,511	30,348	32,452
BIOLOGICAL & AGRICULTURAL, TOTAL	13,736	12,898	14,749	15,925	17,544	19,578	22,325	25,468
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	7,255	7,699	9,308	11,180	13,272
ENVIRONMENTAL BIOLOGY	-	-	-	8,670	9,845	10,270	11,145	12,196
MEDICAL SCIENCES, TOTAL	2,615	5,512	7,157	6,907	7,627	9,933	8,023	6,984
CLINICAL MEDICAL	1,745	3,682	4,781	-	-	-	-	-
OTHER MEDICAL	870	1,830	2,376	-	-	-	-	-
LIFE SCIENCES, NEC	45	91	-	-	-	-	-	-
PSYCHOLOGY, TOTAL	864	1,546	1,897	3,671	1,941	3,333	5,140	6,691
BIOLOGICAL ASPECTS	195	895	975	1,009	1,189	2,157	4,249	3,971
SOCIAL ASPECTS	666	651	922	1,762	522	407	391	1,215
PSYCHOLOGICAL SCIENCES, NEC	3	-	-	900	250	769	500	1,705
PHYSICAL SCIENCES, TOTAL	4,248	4,438	7,316	11,477	12,131	13,104	13,913	11,835
ASTRONOMY	4,248	4,408	5,007	6,417	6,670	7,596	8,280	8,535
CHEMISTRY	-	-	2,309	3,716	4,069	4,288	4,400	3,300
PHYSICS	-	30	-	1,344	1,392	1,220	1,233	-
ENVIRONMENTAL SCIENCES, TOTAL	1,623	2,207	2,383	2,697	2,898	3,128	3,582	3,558
ATMOSPHERIC SCIENCES	85	84	103	158	108	115	124	138
GEOLOGICAL SCIENCES	1,390	1,529	1,642	1,792	1,938	2,116	2,274	2,420
OCEANOGRAPHY	148	594	638	747	854	822	934	994
ENVIRONMENTAL SCIENCES, NEC	-	-	-	-	-	75	250	-

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TABLE 28. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

ALL OTHER DEPARTMENTS AND AGENCIES

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	-	-	-	-	-	254	251	282
MATHEMATICS	-	-	-	-	-	254	251	282
ENGINEERING, TOTAL	550	69	90	1,688	-	-	500	-
AERONAUTICAL	-	-	-	-	-	-	-	-
ASTRONAUTICAL	25	-	-	-	-	-	-	-
CHEMICAL	-	-	-	1,300	-	-	-	-
CIVIL	224	-	90	67	-	-	-	-
ELECTRICAL	301	19	-	-	-	-	-	-
MECHANICAL	-	-	-	7	-	-	500	-
METALLURGY & MATERIALS	-	-	-	-	-	-	-	-
ENGINEERING, NEC	-	50	-	312	-	-	-	-
SOCIAL SCIENCES, TOTAL	18,826	19,138	27,279	48,927	42,874	47,428	48,538	44,132
ANTHROPOLOGY	2,688	2,575	3,805	5,694	5,541	7,008	6,598	9,159
ECONOMICS	767	1,233	1,574	1,315	1,458	5,571	5,790	4,558
POLITICAL SCIENCE	-	508	-	-	325	1,890	500	500
SOCIOLOGY	6,521	3,903	3,188	3,959	1,536	3,049	2,693	1,566
SOCIAL SCIENCES, NEC	6,850	10,919	18,712	35,959	34,018	29,912	30,959	28,349
HISTORY	4,958	-	-	-	-	-	-	-
LINGUISTICS	-	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	1,894	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	3,283	548	149	142	100	100	100	100

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

TOTAL, ALL AGENCIES

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	2,953,852	3,118,964	3,324,683	3,339,754	3,777,051	4,129,325	4,840,805	5,244,618
LIFE SCIENCES, TOTAL	736,010	831,703	988,975	1,042,705	1,232,976	1,339,266	1,427,681	1,624,384
BIOLOGICAL & AGRICULTURAL, TOTAL	373,652	415,198	470,649	514,598	624,304	705,185	717,388	843,993
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	344,048	385,610	467,374	505,354	593,252	608,740	668,554	723,971
CLINICAL MEDICAL	333,684	361,971	426,893	459,011	532,728	511,737	545,104	594,802
OTHER MEDICAL	10,364	23,639	40,481	46,343	60,524	97,003	123,450	129,169
LIFE SCIENCES, NEC	18,310	30,895	30,952	22,753	15,420	25,361	41,741	56,420
PSYCHOLOGY, TOTAL	59,279	61,742	64,894	64,560	87,295	80,550	98,487	100,484
BIOLOGICAL ASPECTS	12,627	12,462	14,895	13,816	30,720	19,211	25,342	35,087
SOCIAL ASPECTS	31,762	31,958	29,220	29,090	33,944	34,888	38,834	34,465
PSYCHOLOGICAL SCIENCES, NEC	14,890	17,322	20,779	21,654	22,631	26,451	34,291	30,932
PHYSICAL SCIENCES, TOTAL	344,798	311,965	382,889	353,530	388,484	387,685	537,457	640,177
ASTRONOMY	5,724	2,800	7,540	1,808	2,689	5,291	3,133	3,984
CHEMISTRY	100,357	95,133	105,804	116,068	131,091	128,908	160,179	162,027
PHYSICS	215,644	178,050	211,845	192,463	196,341	215,981	320,823	398,846
PHYSICAL SCIENCES, NEC	23,071	35,982	57,900	43,391	36,343	39,507	53,322	75,320
ENVIRONMENTAL SCIENCES, TOTAL	230,780	258,797	285,087	297,447	334,177	434,550	483,686	507,690
ATMOSPHERIC SCIENCES	109,946	127,671	112,043	104,750	141,000	180,811	185,726	185,788
GEOLOGICAL SCIENCES	72,321	76,359	90,130	88,070	76,154	103,120	131,457	140,710
OCEANOGRAPHY	31,453	37,223	43,830	50,363	55,470	89,023	85,693	89,580
ENVIRONMENTAL SCIENCES, NEC	17,060	17,544	39,084	54,264	61,553	81,596	80,810	111,634

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TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

TOTAL, ALL AGENCIES

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	35,566	51,288	54,122	54,680	61,529	63,253	75,989	112,472
MATHEMATICS	-	-	-	-	-	-	26,695	44,279
COMPUTER SCIENCES	-	-	-	-	-	-	46,989	58,337
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	2,305	9,856
ENGINEERING, TOTAL	1,335,907	1,294,189	1,242,735	1,149,821	1,348,881	1,454,930	1,795,858	1,775,234
AERONAUTICAL	301,182	261,391	182,204	198,386	303,890	314,907	494,839	359,327
ASTRONAUTICAL	165,177	141,584	57,825	38,694	86,405	87,788	187,536	148,810
CHEMICAL	97,317	93,922	66,268	59,549	50,144	67,513	69,845	80,767
CIVIL	65,562	70,489	114,423	95,749	93,543	117,874	98,118	108,998
ELECTRICAL	249,252	242,211	291,019	253,595	230,792	239,202	244,606	327,588
MECHANICAL	142,664	162,666	147,239	185,133	114,427	144,849	185,564	189,545
METALLURGY & MATERIALS	86,850	99,173	119,544	104,806	116,000	122,126	171,636	168,945
ENGINEERING, NEC	227,903	222,753	264,213	213,909	353,660	360,671	383,711	413,254
SOCIAL SCIENCES, TOTAL	147,515	232,697	225,359	218,593	217,385	228,059	308,030	330,612
ANTHROPOLOGY	713	2,950	3,289	1,149	4,596	6,866	7,159	4,339
ECONOMICS	52,428	48,056	56,759	66,432	92,854	104,172	111,943	113,769
POLITICAL SCIENCE	3,944	2,735	1,743	4,111	6,240	10,086	4,240	5,935
SOCIOLOGY	25,160	88,922	98,658	89,594	49,864	39,838	37,044	36,221
SOCIAL SCIENCES, NEC	65,270	90,034	64,912	57,307	63,811	67,097	145,644	170,348
HISTORY	207	516	248	245	337	956	-	-
LINGUISTICS	50	768	1,280	1,128	1,005	941	-	-
OTHER SOCIAL SCIENCES	65,013	88,750	63,384	55,934	62,469	65,200	-	-
OTHER SCIENCES, NEC	63,999	74,605	100,602	158,418	128,384	141,032	135,439	153,565

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF AGRICULTURE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	156,216	173,738	199,858	211,380	219,453	247,760	270,853	319,570
LIFE SCIENCES, TOTAL	91,014	101,343	116,488	123,125	127,282	143,062	157,614	189,787
BIOLOGICAL & AGRICULTURAL, TOTAL	89,249	99,442	114,181	120,616	124,773	140,224	154,433	186,216
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	1,765	1,901	2,317	2,509	2,509	2,838	3,181	3,571
CLINICAL MEDICAL	1,712	1,901	2,317	2,509	2,509	2,838	3,181	3,571
OTHER MEDICAL	53	-	-	-	-	-	-	-
LIFE SCIENCES, NEC	-	-	-	-	-	-	-	-
PSYCHOLOGY, TOTAL	27	28	16	12	18	-	52	59
SOCIAL ASPECTS	27	28	16	12	18	-	52	59
PHYSICAL SCIENCES, TOTAL	19,112	22,031	25,747	27,124	28,080	29,837	31,580	35,978
CHEMISTRY	14,880	17,540	20,913	22,114	22,794	24,895	26,426	29,855
PHYSICS	4,232	4,491	4,834	5,010	5,286	4,942	5,154	6,121
ENVIRONMENTAL SCIENCES, TOTAL	3,285	3,715	4,131	4,549	5,042	8,737	9,198	9,720
ATMOSPHERIC SCIENCES	1,181	1,301	1,571	1,842	2,025	3,911	4,091	3,084
GEOLOGICAL SCIENCES	2,084	2,414	756	681	730	744	3,848	5,226
ENVIRONMENTAL SCIENCES, NEC	-	-	1,804	2,026	2,287	4,082	1,259	1,430

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TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF AGRICULTURE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	379	398	1,042	1,428	1,570	1,783	2,457	2,928
MATHEMATICS	-	-	-	-	-	-	2,457	2,928
ENGINEERING, TOTAL	18,617	20,475	23,068	24,132	25,448	26,119	27,605	32,678
CHEMICAL	1,766	2,110	2,578	2,617	2,726	2,675	2,800	3,512
CIVIL	2,225	2,409	3,121	3,438	3,696	3,363	3,665	4,352
ELECTRICAL	54	39	199	209	229	197	244	259
MECHANICAL	988	1,161	1,354	1,471	1,601	1,993	2,140	2,347
ENGINEERING, NEC	13,584	14,756	15,816	16,397	17,196	17,891	18,956	22,208
SOCIAL SCIENCES, TOTAL	23,594	25,361	29,128	30,737	31,870	38,216	42,341	48,422
ANTHROPOLOGY	-	-	-	9	8	-	-	-
ECONOMICS	22,468	24,219	27,373	28,994	29,819	36,031	40,094	45,603
POLITICAL SCIENCE	-	22	20	15	26	-	-	-
SOCIOLOGY	867	907	1,301	1,257	1,438	1,132	1,764	2,293
SOCIAL SCIENCES, NEC	259	213	434	462	579	1,053	483	526
HISTORY	108	89	157	210	182	362	-	-
OTHER SOCIAL SCIENCES	153	124	277	252	397	691	-	-
OTHER SCIENCES, NEC	208	391	228	275	143	8	8	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF COMMERCE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	54,913	71,897	99,370	113,842	111,000	124,355	133,439	152,970
LIFE SCIENCES, TOTAL	17,214	21,327	29,850	38,773	30,155	40,980	41,920	49,790
BIOLOGICAL & AGRICULTURAL, TOTAL	17,214	21,327	29,780	38,773	30,155	40,980	41,920	49,790
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	-	-	70	-	-	-	-	-
OTHER MEDICAL	-	-	70	-	-	-	-	-
PSYCHOLOGY, TOTAL	777	912	567	59	74	71	167	158
BIOLOGICAL ASPECTS	319	395	97	-	-	-	-	-
SOCIAL ASPECTS	458	517	470	59	74	71	167	158
PHYSICAL SCIENCES, TOTAL	5,646	8,902	15,205	18,781	18,262	18,175	18,044	19,608
ASTRONOMY	-	-	173	335	348	380	320	173
CHEMISTRY	3,288	2,945	5,676	8,395	7,409	5,120	5,812	6,714
PHYSICS	2,352	3,833	9,314	10,051	10,505	10,675	11,912	12,721
PHYSICAL SCIENCES, NEC	6	124	42	-	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	10,519	13,823	18,951	29,365	36,378	41,054	45,599	50,795
ATMOSPHERIC SCIENCES	6,694	8,289	11,370	14,725	21,033	24,518	27,288	28,342
GEOLOGICAL SCIENCES	2,231	3,553	4,873	1,530	917	1,355	1,339	1,146
OCEANOGRAPHY	1,594	1,981	2,708	13,110	14,428	15,181	16,974	21,307
ENVIRONMENTAL SCIENCES, NEC	-	-	-	-	-	-	-	-

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TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF COMMERCE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	927	682	1,065	1,280	1,170	2,187	3,760	4,748
MATHEMATICS	-	-	-	-	-	-	1,730	1,839
COMPUTER SCIENCES	-	-	-	-	-	-	2,030	2,909
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	-	-
ENGINEERING, TOTAL	11,802	21,834	29,298	20,073	19,834	16,129	15,808	21,301
AERONAUTICAL	-	-	-	-	-	-	-	-
CHEMICAL	958	1,185	1,625	-	80	80	62	444
CIVIL	3,987	11,614	7,203	3,540	5,233	5,155	4,959	5,137
ELECTRICAL	3,726	2,875	9,617	4,290	3,490	2,793	3,007	3,738
MECHANICAL	563	721	2,246	1,140	764	823	727	1,269
METALLURGY & MATERIALS	391	119	1,926	1,243	901	1,076	1,182	1,693
ENGINEERING, NEC	2,199	5,320	6,681	9,860	9,366	6,202	5,869	9,020
SOCIAL SCIENCES, TOTAL	6,459	3,763	4,331	5,531	5,127	7,739	6,959	5,826
ECONOMICS	6,063	3,241	3,882	5,405	4,965	7,582	6,739	5,610
POLITICAL SCIENCE	-	-	-	-	-	-	-	-
SOCIOLOGY	396	522	449	126	162	157	220	216
SOCIAL SCIENCES, NEC	-	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	1,569	2,674	103	-	-	20	1,184	744

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF DEFENSE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	1,012,887	987,124	1,175,780	1,129,368	1,131,465	1,130,942	1,200,598	1,342,591
LIFE SCIENCES, TOTAL	59,861	52,334	59,637	76,830	78,061	63,214	75,633	88,080
BIOLOGICAL & AGRICULTURAL, TOTAL	33,671	26,425	30,083	21,854	25,284	23,812	24,284	37,700
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	26,025	25,497	29,329	55,176	52,620	39,097	50,948	47,285
CLINICAL MEDICAL	24,374	23,977	27,398	46,510	44,344	25,880	29,977	31,170
OTHER MEDICAL	1,651	1,520	1,933	8,666	8,276	13,217	20,969	16,115
LIFE SCIENCES, NEC	165	412	245	-	177	305	423	1,075
PSYCHOLOGY, TOTAL	18,665	18,071	17,610	27,619	22,853	30,080	29,684	36,587
BIOLOGICAL ASPECTS	3,782	3,056	2,953	3,246	2,841	804	706	697
SOCIAL ASPECTS	4,934	5,488	4,017	11,977	7,545	15,551	15,951	18,815
PSYCHOLOGICAL SCIENCES, NEC	9,949	9,527	10,640	12,396	12,467	13,725	13,027	17,055
PHYSICAL SCIENCES, TOTAL	196,009	162,836	227,722	178,188	161,698	175,419	186,515	215,279
ASTRONOMY	447	630	6,450	323	442	2,259	495	1,189
CHEMISTRY	31,321	31,101	34,212	34,317	31,873	30,950	35,448	33,885
PHYSICS	142,506	98,532	137,814	100,977	99,817	108,952	107,605	119,788
PHYSICAL SCIENCES, NEC	21,735	34,573	49,248	42,571	29,586	33,258	42,967	60,639
ENVIRONMENTAL SCIENCES, TOTAL	79,487	88,421	94,651	79,744	70,505	74,100	88,536	84,748
ATMOSPHERIC SCIENCES	27,589	28,858	31,778	34,294	33,143	41,882	43,055	29,883
GEOLOGICAL SCIENCES	22,116	23,187	21,348	16,471	12,919	10,976	18,132	16,981
OCEANOGRAPHY	16,922	19,840	24,051	16,278	17,505	15,857	25,390	16,648
ENVIRONMENTAL SCIENCES, NEC	12,860	16,736	17,476	12,701	6,938	5,385	1,959	1,436

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TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF DEFENSE

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	28,495	34,899	38,924	39,264	49,212	46 50	55,713	64,490
MATHEMATICS	-	-	-	-	-	-	14,224	8,373
COMPUTER SCIENCES	-	-	-	-	-	-	40,544	47,079
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	945	9,038
ENGINEERING, TOTAL	595,230	591,349	681,533	670,629	697,023	671,969	698,703	794,913
AERONAUTICAL	82,250	74,004	82,882	91,533	94,879	105,342	100,679	117,897
ASTRONAUTICAL	18,458	9,727	9,984	9,750	10,519	9,797	10,188	24,598
CHEMICAL	30,149	27,142	19,783	19,958	21,199	11,810	15,559	19,522
CIVIL	13,513	11,942	18,877	22,102	22,433	25,010	34,288	22,885
ELECTRICAL	180,720	177,632	222,007	200,908	192,167	196,878	179,887	288,119
MECHANICAL	92,929	100,123	86,084	128,800	90,922	100,242	117,228	118,649
METALLURGY & MATERIALS	44,208	48,525	43,104	43,368	39,682	43,739	44,684	55,758
ENGINEERING, NEC	135,003	144,254	198,832	156,210	225,242	179,151	196,214	169,487
SOCIAL SCIENCES, TOTAL	2,876	3,237	5,435	4,706	8,518	3,733	3,767	2,054
ANTHROPOLOGY	-	217	392	-	402	-	18	-
ECONOMICS	646	848	879	557	1,164	1,068	854	218
POLITICAL SCIENCE	889	681	529	908	264	1,347	891	1,404
SOCIOLOGY	849	955	2,655	2,686	3,976	392	314	432
SOCIAL SCIENCES, NEC	492	556	980	555	710	926	1,690	-
LINGUISTICS	-	-	176	8	-	18	-	-
OTHER SOCIAL SCIENCES	492	556	804	547	710	908	-	-
OTHER SCIENCES, NEC	32,284	35,977	50,268	52,388	45,597	65,677	62,045	78,482

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF ENERGY 1/

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	146,448	152,094	148,833	149,628	195,244	280,673	400,709	501,816
LIFE SCIENCES, TOTAL	43,120	43,607	43,909	47,585	75,731	107,682	78,545	89,042
BIOLOGICAL & AGRICULTURAL, TOTAL	35,050	35,382	35,740	37,926	65,258	98,766	50,597	55,410
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	8,070	8,225	8,169	9,659	10,473	8,916	8,523	9,028
CLINICAL MEDICAL	8,070	8,225	8,169	9,659	10,473	8,916	3,957	2,100
OTHER MEDICAL	-	-	-	-	-	-	4,566	6,928
LIFE SCIENCES, NEC	-	-	-	-	-	-	19,425	24,604
PHYSICAL SCIENCES, TOTAL	69,312	71,431	68,380	75,591	82,975	88,082	208,040	258,943
CHEMISTRY	25,202	23,776	19,435	13,437	13,272	14,448	22,667	14,580
PHYSICS	44,110	47,655	48,945	62,154	66,598	73,553	180,654	237,163
PHYSICAL SCIENCES, NEC	-	-	-	-	3,105	81	4,719	7,220
ENVIRONMENTAL SCIENCES, TOTAL	9,462	10,116	14,626	14,200	14,320	14,438	72,300	81,225
ATMOSPHERIC SCIENCES	5,318	5,812	7,942	7,931	7,346	8,830	14,959	13,433
GEOLOGICAL SCIENCES	1,942	2,085	3,711	2,687	1,635	587	21,712	24,849
OCEANOGRAPHY	2,202	2,219	2,973	2,963	3,211	5,021	13,787	13,354
ENVIRONMENTAL SCIENCES, NEC	-	-	-	619	2,128	-	21,842	29,589

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TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF ENERGY 1/

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	-	-	-	-	-	-	-	-
MATHEMATICS	-	-	-	-	-	-	-	-
COMPUTER SCIENCES	-	-	-	-	-	-	-	-
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	-	-
ENGINEERING, TOTAL	24,554	20,940	21,918	12,252	22,218	70,471	39,515	59,920
ASTRONAUTICAL	-	-	-	-	-	-	-	-
CHEMICAL	4,350	4,375	4,438	-	7,537	24,927	11,876	14,177
CIVIL	-	-	-	-	-	17,000	1,000	3,700
ELECTRICAL	-	-	-	-	920	5,656	100	2,402
MECHANICAL	-	-	-	-	1,363	7,210	2,822	4,754
METALLURGY & MATERIALS	18,900	21,400	16,613	12,252	11,898	8,002	14,421	18,194
ENGINEERING, NEC	1,304	1,165	867	-	500	9,676	9,298	16,693
SOCIAL SCIENCES, TOTAL	-	-	-	-	-	-	2,309	2,686
ECONOMICS	-	-	-	-	-	-	2,309	1,551
POLITICAL SCIENCE	-	-	-	-	-	-	-	-
SOCIOLOGY	-	-	-	-	-	-	-	135
SOCIAL SCIENCES, NEC	-	-	-	-	-	-	-	1,000
OTHER SCIENCES, NEC	-	-	-	-	-	-	-	10,000

1/ DATA SHOWN FOR FISCAL YEARS 1970-73 AND FISCAL YEARS 1974-76 REPRESENT OBLIGATIONS OF THE ATOMIC ENERGY COMMISSION AND THE ENERGY RESEARCH & DEVELOPMENT ADMINISTRATION, RESPECTIVELY.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF HEALTH & HUMAN SERVICES 1/

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	502,709	601,438	734,325	765,534	985,612	1,013,093	1,136,379	1,268,616
LIFE SCIENCES, TOTAL	395,236	475,599	585,735	602,983	784,439	805,185	884,510	977,098
BIOLOGICAL & AGRICULTURAL, TOTAL	129,964	161,693	201,955	223,713	300,764	299,906	331,000	387,583
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	259,055	306,325	374,247	368,713	450,460	482,391	533,344	581,887
CLINICAL MEDICAL	259,055	298,572	356,565	357,838	424,373	427,564	472,699	510,815
OTHER MEDICAL	-	7,753	17,682	10,875	26,087	54,827	60,645	71,072
LIFE SCIENCES, NEC	6,217	7,581	9,533	10,557	13,215	22,888	20,166	27,626
PSYCHOLOGY, TOTAL	20,008	26,639	29,631	25,299	50,697	34,792	48,495	42,792
BIOLOGICAL ASPECTS	4,120	4,429	4,897	4,184	21,832	12,816	16,971	16,194
SOCIAL ASPECTS	11,052	14,480	16,539	13,514	18,793	10,464	17,576	12,939
PSYCHOLOGICAL SCIENCES, NEC	4,836	7,730	8,195	7,601	10,072	11,512	11,948	13,659
PHYSICAL SCIENCES, TOTAL	14,076	14,542	12,028	12,637	25,041	18,217	19,635	21,659
CHEMISTRY	13,202	5,076	10,572	11,235	23,184	16,200	17,432	19,226
PHYSICS	874	8,401	1,456	1,402	1,857	2,017	2,203	2,433
PHYSICAL SCIENCES, NEC	-	1,065	-	-	-	-	-	-

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TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF HEALTH & HUMAN SERVICES 1/

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	2,197	3,453	3,949	3,728	5,094	5,259	5,438	6,693
MATHEMATICS	-	-	-	-	-	-	5,438	6,210
COMPUTER SCIENCES	-	-	-	-	-	-	-	483
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	-	-
ENGINEERING, TOTAL	8,431	10,358	14,640	16,858	20,495	18,927	20,676	29,325
CHEMICAL	-	-	29	989	1,441	-	-	-
CIVIL	-	31	-	-	-	-	-	-
ELECTRICAL	87	-	303	5	122	-	-	-
MECHANICAL	-	-	1,305	183	490	-	-	-
METALLURGY & MATERIALS	-	-	-	105	-	-	-	-
ENGINEERING, NEC	8,344	10,327	13,003	15,576	18,442	18,927	20,676	29,325
SOCIAL SCIENCES, TOTAL	44,680	49,345	61,098	73,591	80,404	84,382	112,236	137,729
ANTHROPOLOGY	711	2,481	2,676	894	4,074	3,386	3,478	1,733
ECONOMICS	-	-	-	-	18,682	20,521	15,369	12,370
POLITICAL SCIENCE	-	-	-	-	-	1,328	490	175
SOCIOLOGY	10,331	17,341	33,847	46,557	30,334	24,443	22,049	17,992
SOCIAL SCIENCES, NEC	33,638	29,523	24,575	26,140	27,314	34,704	70,850	105,459
HISTORY	-	21	47	35	149	372	-	-
LINGUISTICS	-	618	841	734	954	743	-	-
OTHER SOCIAL SCIENCES	33,638	28,884	23,687	25,371	26,211	33,589	-	-
OTHER SCIENCES, NEC	18,081	21,502	27,244	30,440	39,442	46,351	47,389	51,322

1/ DATA SHOWN FOR FISCAL YEARS 1970-78 REPRESENT OBLIGATIONS OF THE DEPARTMENT OF HEALTH, EDUCATION, & WELFARE MINUS DATA FOR THE OFFICE OF EDUCATION, THE NATIONAL INSTITUTE OF EDUCATION, AND THE OFFICE OF THE ASSISTANT SECRETARY FOR EDUCATION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

HHS: ALCOHOL, DRUG ABUSE, & MENTAL HEALTH ADMIN

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	-	-	-	69,638	102,319	73,180	84,080	89,298
LIFE SCIENCES, TOTAL	-	-	-	43,165	54,100	36,820	39,401	42,987
BIOLOGICAL & AGRICULTURAL, TOTAL	-	-	-	7,898	28,830	16,019	23,851	25,001
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	-	-	-	35,267	25,270	12,607	11,411	8,128
CLINICAL MEDICAL	-	-	-	35,267	18,433	8,023	9,586	6,690
OTHER MEDICAL	-	-	-	-	6,837	4,584	1,825	1,438
LIFE SCIENCES, NEC	-	-	-	-	-	8,194	4,139	9,860
PSYCHOLOGY, TOTAL	-	-	-	13,937	34,385	22,581	28,294	28,142
BIOLOGICAL ASPECTS	-	-	-	4,093	21,679	12,816	16,971	16,194
SOCIAL ASPECTS	-	-	-	9,844	12,706	9,190	11,323	11,948
PSYCHOLOGICAL SCIENCES, NEC	-	-	-	-	-	575	-	-
PHYSICAL SCIENCES, TOTAL	-	-	-	-	2,409	298	61	40
CHEMISTRY	-	-	-	-	2,409	298	61	40

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TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

HHS: ALCOHOL, DRUG ABUSE, & MENTAL HEALTH ADMIN

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	-	-	-	696	1,185	993	777	1,383
MATHEMATICS	-	-	-	-	-	-	777	1,083
COMPUTER SCIENCES	-	-	-	-	-	-	-	300
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	-	-
ENGINEERING, TOTAL	-	-	-	-	-	-	-	-
ENGINEERING, NEC	-	-	-	-	-	-	-	-
SOCIAL SCIENCES, TOTAL	-	-	-	11,838	10,260	9,858	14,617	14,388
ANTHROPOLOGY	-	-	-	592	698	1,591	3,478	1,733
ECONOMICS	-	-	-	-	-	74	137	153
POLITICAL SCIENCE	-	-	-	-	-	74	-	157
SOCIOLOGY	-	-	-	10,477	8,459	3,718	9,350	10,557
SOCIAL SCIENCES, NEC	-	-	-	769	1,103	4,403	1,652	1,788
HISTORY	-	-	-	35	149	372	-	-
LINGUISTICS	-	-	-	734	954	743	-	-
OTHER SOCIAL SCIENCES	-	-	-	-	-	3,288	-	-
OTHER SCIENCES, NEC	-	-	-	-	-	2,630	910	2,378

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

HHS: NATIONAL INSTITUTES OF HEALTH

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	338,035	409,782	513,650	539,084	714,340	775,697	847,380	935,882
LIFE SCIENCES, TOTAL	292,218	356,348	448,670	468,787	621,190	674,546	738,882	813,843
BIOLOGICAL & AGRICULTURAL, TOTAL	110,757	135,064	169,299	177,882	235,447	255,670	279,298	308,467
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	175,242	213,701	267,868	281,132	372,528	404,526	441,909	488,062
CLINICAL MEDICAL	175,242	213,701	267,868	281,132	372,528	404,526	441,909	488,062
LIFE SCIENCES, NEC	6,217	7,581	9,503	9,973	13,215	14,350	15,677	17,314
PSYCHOLOGY, TOTAL	4,738	5,778	7,243	7,601	10,072	10,937	11,948	13,196
PSYCHOLOGICAL SCIENCES, NEC	4,738	5,778	7,243	7,601	10,072	10,937	11,948	13,196
PHYSICAL SCIENCES, TOTAL	7,783	9,466	11,885	12,453	16,501	17,919	19,574	21,619
CHEMISTRY	6,889	-	10,530	11,051	14,644	15,902	17,371	19,186
PHYSICS	874	8,401	1,335	1,402	1,857	2,017	2,203	2,433
PHYSICAL SCIENCES, NEC	-	1,065	-	-	-	-	-	-

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TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

HHS: NATIONAL INSTITUTES OF HEALTH

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	1,848	2,254	2,825	2,985	3,929	4,266	4,661	5,147
MATHEMATICS	-	-	-	-	-	-	4,661	5,147
ENGINEERING, TOTAL	8,199	9,999	12,533	13,154	17,430	18,927	20,676	22,836
ENGINEERING, NEC	8,199	9,999	12,533	13,154	17,430	18,927	20,676	22,836
SOCIAL SCIENCES, TOTAL	3,831	4,671	5,856	6,146	8,144	8,843	9,660	10,669
SOCIAL SCIENCES, NEC	3,831	4,671	5,856	6,146	8,144	8,843	9,660	10,669
OTHER SOCIAL SCIENCES	3,831	4,671	5,856	6,146	8,144	8,843	-	-
OTHER SCIENCES, NEC	17,440	21,268	26,658	27,978	37,074	40,259	43,979	48,572

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

DEPARTMENT OF THE INTERIOR

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	81,105	95,145	104,281	111,420	94,817	179,109	205,128	192,383
LIFE SCIENCES, TOTAL	11,830	14,632	12,793	14,760	14,247	37,897	40,215	45,208
BIOLOGICAL & AGRICULTURAL, TOTAL	11,800	14,605	12,728	14,698	14,185	37,817	40,155	45,113
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	-	-	-	42	42	53	40	50
OTHER MEDICAL	-	-	-	42	42	53	40	50
LIFE SCIENCES, NEC	30	27	65	22	20	27	20	43
PSYCHOLOGY, TOTAL	58	66	185	254	244	315	243	320
BIOLOGICAL ASPECTS	-	-	160	-	-	-	-	-
SOCIAL ASPECTS	58	66	25	254	244	315	243	320
PSYCHOLOGICAL SCIENCES, NEC	-	-	-	-	-	-	-	-
PHYSICAL SCIENCES, TOTAL	5,173	5,451	6,458	6,461	4,932	5,139	5,988	6,844
ASTRONOMY	-	-	-	-	-	-	31	27
CHEMISTRY	4,664	4,886	5,687	5,753	4,239	4,394	5,200	5,895
PHYSICS	509	565	769	708	693	745	757	922
PHYSICAL SCIENCES, NEC	-	-	-	-	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	24,219	28,288	35,761	40,155	40,269	70,844	73,465	80,775
ATMOSPHERIC SCIENCES	4,870	6,842	6,802	6,592	4,070	4,229	4,821	6,584
GEOLOGICAL SCIENCES	18,221	20,472	26,958	31,237	33,825	58,230	59,320	64,052
OCEANOGRAPHY	1,109	1,150	1,648	1,942	2,004	7,537	8,718	7,830
ENVIRONMENTAL SCIENCES, NEC	19	24	353	384	370	848	606	2,329

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TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF THE INTERIOR

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	949	1,355	1,366	1,086	1,073	1,998	2,332	2,278
MATHEMATICS	-	-	-	-	-	-	1,702	1,375
COMPUTER SCIENCES	-	-	-	-	-	-	579	807
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	51	96
ENGINEERING, TOTAL	37,579	43,543	44,145	46,247	31,925	56,607	76,509	51,740
ASTRONAUTICAL	-	-	-	-	-	-	-	-
CHEMICAL	14,233	14,727	15,869	16,739	5,427	8,574	12,374	6,283
CIVIL	5,347	5,902	7,558	7,616	7,764	9,881	12,793	8,407
ELECTRICAL	2,398	3,507	2,113	2,270	1,610	4,041	5,539	774
MECHANICAL	1,557	2,843	2,269	2,273	1,664	4,719	6,080	5,119
METALLURGY & MATERIALS	12,681	14,960	15,282	14,768	14,790	28,526	39,048	30,427
ENGINEERING, NEC	1,363	1,604	1,054	2,581	670	866	677	730
SOCIAL SCIENCES, TOTAL	1,144	1,631	2,105	1,912	1,804	5,144	5,398	4,598
ANTHROPOLOGY	-	250	220	210	90	3,125	3,623	2,606
ECONOMICS	726	808	951	898	825	714	560	788
POLITICAL SCIENCE	141	255	284	440	423	548	421	480
SOCIOLOGY	156	176	242	190	302	467	440	425
SOCIAL SCIENCES, NEC	121	142	428	174	164	290	354	299
HISTORY	10	9	39	-	-	64	-	-
OTHER SOCIAL SCIENCES	111	133	389	174	164	226	-	-
OTHER SCIENCES, NEC	153	179	1,450	545	523	1,187	978	602

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

ENVIRONMENTAL PROTECTION AGENCY

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	47,534	47,718	44,950	65,257	86,794	124,311	141,695	196,956
LIFE SCIENCES, TOTAL	17,057	13,702	11,690	18,595	23,619	27,700	43,080	70,688
BIOLOGICAL & AGRICULTURAL, TOTAL	11,013	10,908	8,650	13,942	20,219	23,800	37,419	66,176
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	6,044	2,794	3,040	2,653	3,400	4,100	5,641	4,512
CLINICAL MEDICAL	660	344	350	-	-	-	-	-
OTHER MEDICAL	5,384	2,450	2,690	2,653	3,400	4,100	5,641	4,512
PSYCHOLOGY, TOTAL	8	45	60	-	-	-	-	-
BIOLOGICAL ASPECTS	8	45	35	-	-	-	-	-
SOCIAL ASPECTS	-	-	25	-	-	-	-	-
PHYSICAL SCIENCES, TOTAL	5,929	6,535	4,440	21,457	23,800	27,500	45,642	48,694
CHEMISTRY	3,849	4,627	4,080	16,857	20,600	21,000	41,990	44,984
PHYSICS	1,144	1,908	360	4,600	3,200	6,500	3,652	3,710
PHYSICAL SCIENCES, NEC	936	-	-	-	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	4,240	5,000	4,400	3,450	4,700	5,700	3,588	5,444
ATMOSPHERIC SCIENCES	749	3,120	2,715	1,805	2,775	3,300	683	590
GEOLOGICAL SCIENCES	36	80	185	670	825	1,000	1,205	3,179
OCEANOGRAPHY	1,716	1,800	1,500	975	1,100	1,400	1,678	1,675
ENVIRONMENTAL SCIENCES, NEC	1,739	-	-	-	-	-	-	-

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TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

ENVIRONMENTAL PROTECTION AGENCY

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	193	480	270	1,485	1,575	2,300	2,330	3,100
MATHEMATICS	-	-	-	-	-	-	466	2,370
COMPUTER SCIENCES	-	-	-	-	-	-	1,864	730
ENGINEERING, TOTAL	19,586	21,174	23,080	19,300	32,200	55,471	45,197	65,715
ASTRONAUTICAL	137	100	90	-	-	-	-	-
CHEMICAL	6,747	7,500	7,150	5,580	9,200	14,200	16,988	25,212
CIVIL	7,870	7,234	9,455	6,860	12,800	19,800	17,750	24,890
ELECTRICAL	197	220	145	1,960	3,100	4,471	5,232	7,814
MECHANICAL	4,635	6,120	6,220	4,900	7,100	17,000	5,227	7,799
SOCIAL SCIENCES, TOTAL	521	802	1,030	2,970	900	5,640	1,900	3,315
ECONOMICS	377	615	772	1,782	700	4,400	1,520	2,395
SOCIOLOGY	63	187	258	1,188	200	1,240	380	920
SOCIAL SCIENCES, NEC	81	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	81	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	672,687	595,387	432,981	443,641	539,810	625,804	929,632	792,302
LIFE SCIENCES, TOTAL	24,132	29,308	25,909	24,572	9,806	10,995	16,325	12,861
BIOLOGICAL & AGRICULTURAL, TOTAL	11,682	5,582	2,285	3,849	2,009	2,880	1,078	1,699
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	2,203	1,429	6,801	8,907	6,887	6,906	14,333	10,433
CLINICAL MEDICAL	2,203	-	-	1,286	720	749	875	982
OTHER MEDICAL	-	1,429	6,801	7,621	6,167	6,157	13,458	9,451
LIFE SCIENCES, NEC	10,247	22,295	16,823	11,816	910	1,229	914	729
PSYCHOLOGY, TOTAL	705	903	4,159	4,112	5,673	7,933	9,702	10,332
BIOLOGICAL ASPECTS	705	903	2,215	2,227	1,337	1,058	-	9,637
SOCIAL ASPECTS	-	-	-	228	4,488	5,719	386	477
PSYCHOLOGICAL SCIENCES, NEC	-	-	1,944	1,857	48	1,156	9,316	218
PHYSICAL SCIENCES, TOTAL	23,851	16,109	9,708	8,602	10,985	13,801	14,198	24,564
ASTRONOMY	5,263	2,151	907	950	1,824	2,292	2,287	2,595
CHEMISTRY	1,355	1,406	2,922	1,309	1,910	1,705	519	1,419
PHYSICS	17,233	12,552	5,879	6,043	5,357	3,883	6,683	13,829
PHYSICAL SCIENCES, NEC	-	-	-	300	1,894	5,921	4,709	6,721
ENVIRONMENTAL SCIENCES, TOTAL	89,156	98,093	90,931	105,174	142,851	199,300	158,646	201,624
ATMOSPHERIC SCIENCES	60,533	68,972	42,033	30,315	60,110	84,179	65,241	80,268
GEOLOGICAL SCIENCES	22,339	20,771	30,123	33,333	21,359	25,739	20,074	23,154
OCEANOGRAPHY	6,284	8,350	8,911	13,878	14,890	22,300	18,506	28,361
ENVIRONMENTAL SCIENCES, NEC	-	-	9,864	27,650	46,492	67,082	54,825	69,841

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TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	-	-	-	1,254	718	1,157	906	23,423
MATHEMATICS	-	-	-	-	-	-	-	20,557
COMPUTER SCIENCES	-	-	-	-	-	-	-	2,866
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	906	-
ENGINEERING, TOTAL	534,843	446,760	300,178	255,247	387,670	385,554	719,731	517,320
AERONAUTICAL	210,921	175,153	98,294	104,203	205,030	205,727	392,393	238,875
ASTRONAUTICAL	148,355	131,078	46,988	28,352	75,423	77,586	156,988	123,833
CHEMICAL	35,885	30,867	11,353	10,899	220	2,813	8,159	10,859
CIVIL	101	-	-	100	742	258	1,145	1,314
ELECTRICAL	51,727	42,833	48,474	32,620	19,084	18,196	46,703	38,703
MECHANICAL	19,502	21,616	43,771	39,952	3,925	9,665	28,081	22,508
METALLURGY & MATERIALS	7,715	10,044	39,421	31,730	43,123	39,493	89,839	80,815
ENGINEERING, NEC	80,637	35,169	11,875	7,391	20,123	31,818	18,423	20,813
SOCIAL SCIENCES, TOTAL	-	-	884	1,911	540	898	1,744	533
ECONOMICS	-	-	-	85	504	595	1,647	457
POLITICAL SCIENCE	-	-	-	50	30	211	57	30
SOCIOLOGY	-	-	-	20	-	-	-	-
SOCIAL SCIENCES, NEC	-	-	884	1,778	6	90	40	46
HISTORY	-	-	-	-	6	47	-	-
OTHER SOCIAL SCIENCES	-	-	884	1,778	-	43	-	-
OTHER SCIENCES, NEC	-	4,216	1,214	42,769	1,367	6,188	8,380	1,645

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

NATIONAL SCIENCE FOUNDATION

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	29,812	45,720	59,579	71,511	105,039	84,026	72,142	63,400
LIFE SCIENCES, TOTAL	7,457	8,527	10,543	7,643	14,718	8,223	8,759	5,085
BIOLOGICAL & AGRICULTURAL, TOTAL	7,247	8,527	6,900	7,285	14,703	8,223	8,745	5,005
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	210	-	-	-	13	-	-	-
CLINICAL MEDICAL	-	-	-	-	13	-	-	-
OTHER MEDICAL	210	-	-	-	-	-	-	-
LIFE SCIENCES, NEC	-	-	3,643	358	-	-	14	80
PSYCHOLOGY, TOTAL	120	180	880	910	940	638	-	-
BIOLOGICAL ASPECTS	90	150	680	700	720	463	-	-
SOCIAL ASPECTS	30	30	200	210	220	175	-	-
PHYSICAL SCIENCES, TOTAL	1,627	2,246	10,186	2,654	5,572	11,366	4,573	4,980
ASTRONOMY	-	-	-	-	75	360	-	-
CHEMISTRY	500	1,466	780	1,174	3,420	6,353	2,510	3,269
PHYSICS	893	780	1,080	1,229	2,077	4,653	2,063	1,711
PHYSICAL SCIENCES, NEC	234	-	8,326	251	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	6,239	6,381	11,321	14,952	12,639	12,518	9,289	4,733
ATMOSPHERIC SCIENCES	2,425	3,979	4,833	5,579	7,289	6,902	5,545	2,930
GEOLOGICAL SCIENCES	1,482	612	685	662	3,214	4,147	3,113	1,792
OCEANOGRAPHY	1,375	1,790	1,828	865	2,136	1,469	478	-
ENVIRONMENTAL SCIENCES, NEC	957	-	3,975	7,846	-	-	153	11

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TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

NATIONAL SCIENCE FOUNDATION

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	100	9,231	140	324	450	1,484	1,848	3,279
MATHEMATICS	-	-	-	-	-	-	98	249
COMPUTER SCIENCES	-	-	-	-	-	-	1,585	3,030
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	165	-
ENGINEERING, TOTAL	4,258	11,491	10,700	8,704	20,744	23,428	15,508	15,711
AERONAUTICAL	-	-	-	-	-	-	-	120
CHEMICAL	830	2,740	760	790	810	448	532	584
CIVIL	380	1,718	760	857	810	448	562	1,852
ELECTRICAL	1,030	2,185	760	898	810	448	531	649
MECHANICAL	1,488	1,909	760	3,289	810	448	551	857
METALLURGY & MATERIALS	330	2,941	760	792	4,728	2,728	1,992	1,482
ENGINEERING, NEC	200	-	6,900	78	12,776	18,916	11,338	10,587
SOCIAL SCIENCES, TOTAL	5,348	6,228	10,347	12,187	12,902	13,192	22,104	19,491
ANTHROPOLOGY	-	-	-	-	-	350	40	-
ECONOMICS	1,022	1,538	1,987	2,444	1,050	1,135	886	1,500
POLITICAL SCIENCE	951	470	356	209	210	188	77	120
SOCIOLOGY	400	280	350	500	510	333	234	210
SOCIAL SCIENCES, NEC	2,975	3,940	7,654	9,034	11,132	11,188	20,867	17,861
HISTORY	-	-	-	-	-	111	-	-
LINGUISTICS	-	-	-	-	-	180	-	-
OTHER SOCIAL SCIENCES	2,975	3,940	7,654	9,034	11,132	10,897	-	-
OTHER SCIENCES, NEC	4,663	1,438	5,462	28,137	37,078	15,177	12,085	10,121

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

ALL OTHER DEPARTMENTS AND AGENCIES

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
TOTAL, ALL FIELDS	249,541	346,703	324,726	278,173	307,817	319,252	350,032	416,034
LIFE SCIENCES, TOTAL	69,089	71,326	72,411	89,839	94,920	96,328	83,100	98,769
BIOLOGICAL & AGRICULTURAL, TOTAL	26,762	31,307	28,367	32,144	28,974	30,977	29,775	29,301
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	-	-	-	-	-
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	-	-	-
AGRICULTURAL	-	-	-	-	-	-	-	-
MEDICAL SCIENCES, TOTAL	40,676	39,439	43,401	57,695	66,848	64,439	52,546	67,205
CLINICAL MEDICAL	37,610	28,952	32,096	41,209	50,298	45,790	34,415	46,164
OTHER MEDICAL	3,066	10,487	11,305	16,486	16,552	18,649	18,131	21,041
LIFE SCIENCES, NEC	1,651	580	643	-	1,098	912	779	2,263
PSYCHOLOGY, TOTAL	18,911	14,900	11,786	295	8,596	8,721	12,124	10,258
BIOLOGICAL ASPECTS	3,603	3,484	3,858	59	3,990	4,070	7,665	8,559
SOCIAL ASPECTS	15,203	11,351	7,928	236	2,562	2,593	4,459	1,697
PSYCHOLOGICAL SCIENCES, NEC	105	65	-	-	44	58	-	-
PHYSICAL SCIENCES, TOTAL	4,061	3,882	3,017	1,035	5,119	2,149	3,242	3,630
ASTRONOMY	14	19	10	-	-	-	-	-
CHEMISTRY	2,096	2,310	1,327	1,477	2,390	1,841	2,175	2,420
PHYSICS	1,791	1,333	1,394	289	951	61	140	470
PHYSICAL SCIENCES, NEC	160	220	286	269	1,778	247	927	740
ENVIRONMENTAL SCIENCES, TOTAL	4,193	4,960	10,315	5,858	7,473	7,859	3,089	8,628
ATMOSPHERIC SCIENCES	587	698	3,001	1,667	3,209	3,080	45	892
GEOLOGICAL SCIENCES	1,870	3,185	1,491	799	730	342	2,716	331
OCEANOGRAPHY	251	293	211	354	196	258	182	407
ENVIRONMENTAL SCIENCES, NEC	1,485	784	5,612	3,038	3,338	4,199	166	6,998

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TABLE 3A. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1970-77

(THOUSANDS OF DOLLARS)

- CONTINUED

ALL OTHER DEPARTMENTS AND AGENCIES

FIELD OF SCIENCE	1970	1971	1972	1973	1974	1975	1976	1977
MATHEMATICS & COMPUTER SCIENCES, TOTAL	2,326	830	7,388	4,855	867	337	1,207	1,533
MATHEMATICS	-	-	-	-	-	-	582	378
COMPUTER SCIENCES	-	-	-	-	-	-	387	433
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	-	238	722
ENGINEERING, TOTAL	81,007	100,245	94,197	78,379	111,304	130,255	136,608	188,611
AERONAUTICAL	8,011	12,234	1,028	2,650	3,981	3,838	1,767	2,435
ASTRONAUTICAL	227	659	763	592	463	405	382	381
CHEMICAL	2,401	3,276	2,683	1,977	1,504	1,988	1,695	174
CIVIL	32,159	29,641	67,449	51,238	40,065	38,963	21,957	34,681
ELECTRICAL	9,313	12,920	7,401	10,435	9,260	8,524	3,383	5,130
MECHANICAL	21,002	28,173	3,250	5,125	5,788	2,751	2,710	8,443
METALLURGY & MATERIALS	2,625	3,184	2,438	548	898	582	472	798
ENGINEERING, NEC	5,269	10,158	9,185	5,816	49,345	77,224	104,262	134,591
SOCIAL SCIENCES, TOTAL	62,893	142,330	111,001	85,048	77,502	69,137	107,272	105,958
ANTHROPOLOGY	2	2	1	38	22	25	-	-
ECONOMICS	21,126	16,787	20,915	26,287	35,345	32,126	41,965	43,277
POLITICAL SCIENCE	1,963	1,327	574	2,489	5,287	8,468	2,304	3,726
SOCIOLOGY	12,098	68,554	59,554	37,070	12,942	11,674	11,843	13,598
SOCIAL SCIENCES, NEC	27,704	55,680	29,957	19,166	23,906	16,846	51,360	45,357
HISTORY	91	397	5	-	-	-	-	-
LINGUISTICS	50	150	263	388	51	-	-	-
OTHER SOCIAL SCIENCES	27,563	55,113	29,689	18,780	23,855	16,846	-	-
OTHER SCIENCES, NEC	7,061	8,230	14,633	5,884	4,236	8,468	3,390	649

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

TOTAL, ALL AGENCIES

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	4,129,325	4,840,605	5,244,618	5,896,099	6,329,489	6,909,225	7,322,622	7,982,850
LIFE SCIENCES, TOTAL	1,339,266	1,427,681	1,624,384	1,838,743	1,956,504	2,137,910	2,232,044	2,307,248
BIOLOGICAL & AGRICULTURAL, TOTAL	705,165	717,388	843,993	945,339	1,041,032	1,168,124	1,240,185	1,297,384
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	613,985	646,724	730,755	770,496	819,442
ENVIRONMENTAL BIOLOGY	-	-	-	120,528	125,751	143,623	157,218	155,042
AGRICULTURAL	-	-	-	210,846	268,557	293,746	312,471	322,900
MEDICAL SCIENCES, TOTAL	608,740	668,554	723,971	819,775	820,505	879,925	903,014	922,989
CLINICAL MEDICAL	511,737	545,104	594,802	-	-	-	-	-
OTHER MEDICAL	97,003	123,450	129,169	-	-	-	-	-
LIFE SCIENCES, NEC	25,361	41,741	56,420	73,629	94,967	89,881	88,845	86,875
PSYCHOLOGY, TOTAL	80,550	98,467	100,484	109,194	122,315	114,803	118,571	129,942
BIOLOGICAL ASPECTS	19,211	25,342	35,087	29,925	30,407	29,722	30,521	31,451
SOCIAL ASPECTS	34,888	38,834	34,485	40,133	49,639	63,546	61,118	65,930
PSYCHOLOGICAL SCIENCES, NEC	26,451	34,291	30,932	39,136	42,269	21,535	26,932	32,561
PHYSICAL SCIENCES, TOTAL	387,685	537,457	640,177	703,262	741,518	778,952	919,414	1,162,798
ASTRONOMY	5,291	3,133	3,984	3,528	3,788	6,251	6,315	6,482
CHEMISTRY	128,906	160,179	162,027	201,613	218,690	197,480	222,713	243,371
PHYSICS	215,981	320,823	398,846	423,035	486,211	513,453	619,841	816,081
PHYSICAL SCIENCES, NEC	39,507	53,322	75,320	75,086	32,829	61,768	70,545	96,864
ENVIRONMENTAL SCIENCES, TOTAL	434,550	483,686	507,690	583,181	632,921	726,741	715,385	761,048
ATMOSPHERIC SCIENCES	180,611	165,728	185,766	149,108	172,293	222,295	214,074	236,249
GEOLOGICAL SCIENCES	103,120	131,457	140,710	171,186	201,000	203,353	221,396	248,702
OCEANOGRAPHY	69,023	85,693	89,580	99,861	97,905	127,830	109,117	99,144
ENVIRONMENTAL SCIENCES, NEC	81,596	80,810	111,634	143,006	161,723	173,266	170,798	176,953

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TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

TOTAL, ALL AGENCIES

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	63,253	75,989	112,472	117,940	105,498	124,015	145,485	159,050
MATHEMATICS	-	26,695	44,279	37,240	23,983	23,833	25,018	25,566
COMPUTER SCIENCES	-	46,989	58,337	66,811	62,921	81,976	92,706	93,519
MATHEMATICS & COMPUTER SCIENCES, NEC	-	2,305	9,856	14,089	18,612	18,206	27,761	39,965
ENGINEERING, TOTAL	1,454,930	1,795,856	1,775,234	2,028,249	2,138,577	2,364,501	2,507,067	2,763,982
AERONAUTICAL	314,907	494,839	359,327	400,046	536,460	603,977	595,236	628,066
ASTRONAUTICAL	87,788	167,536	148,810	150,197	225,973	275,141	289,842	283,554
CHEMICAL	67,513	69,845	80,767	125,327	89,680	70,187	132,221	110,942
CIVIL	117,874	98,119	106,998	131,455	110,710	136,671	125,545	125,089
ELECTRICAL	239,202	244,606	327,588	374,982	355,577	446,301	498,689	610,994
MECHANICAL	144,849	165,564	169,545	204,658	159,985	185,751	149,957	183,518
METALLURGY & MATERIALS	122,126	171,636	168,945	151,434	98,229	114,847	122,297	184,715
ENGINEERING, NEC	360,671	383,711	413,254	490,150	559,963	551,628	613,280	657,104
SOCIAL SCIENCES, TOTAL	228,059	306,030	330,612	385,139	397,592	378,631	372,843	380,173
ANTHROPOLOGY	6,866	7,159	4,339	7,589	4,855	2,945	2,871	3,575
ECONOMICS	104,172	111,943	113,789	129,618	149,239	152,781	180,867	155,528
POLITICAL SCIENCE	10,086	4,240	5,935	5,571	9,781	4,767	5,855	3,589
SOCIOLOGY	39,838	37,044	36,221	41,745	46,117	46,058	44,558	40,178
SOCIAL SCIENCES, NEC	67,097	145,644	170,348	180,638	187,600	170,100	158,694	157,305
HISTORY	958	-	-	-	-	-	-	-
LINGUISTICS	941	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	65,200	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	141,032	135,439	153,585	170,411	236,588	285,669	311,813	338,609

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 38. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF AGRICULTURE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	247,760	270,853	319,570	351,780	375,500	381,785	419,434	462,838
LIFE SCIENCES, TOTAL	143,062	157,614	189,787	221,318	242,858	250,000	273,389	302,209
BIOLOGICAL & AGRICULTURAL, TOTAL	140,224	154,433	186,216	214,985	237,527	244,816	267,698	295,922
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	22,822	29,389	29,113	31,858	35,163
ENVIRONMENTAL BIOLOGY	-	-	-	34,164	51,640	47,030	51,502	56,684
AGRICULTURAL	-	-	-	157,879	156,498	168,673	184,338	204,075
MEDICAL SCIENCES, TOTAL	2,838	3,181	3,571	4,157	5,131	5,184	5,673	6,287
CLINICAL MEDICAL	2,838	3,181	3,571	-	-	-	-	-
OTHER MEDICAL	-	-	-	-	-	-	-	-
LIFE SCIENCES, NEC	-	-	-	2,194	-	-	-	-
PSYCHOLOGY, TOTAL	-	52	59	70	71	72	80	87
SOCIAL ASPECTS	-	52	59	70	71	72	80	87
PHYSICAL SCIENCES, TOTAL	29,837	31,580	35,976	26,704	26,870	26,888	29,493	32,821
CHEMISTRY	24,895	26,426	29,855	24,260	24,950	24,875	27,309	30,211
PHYSICS	4,942	5,154	6,121	2,444	1,920	1,991	2,184	2,410
ENVIRONMENTAL SCIENCES, TOTAL	8,737	9,198	9,720	10,338	9,425	9,395	10,159	11,177
ATMOSPHERIC SCIENCES	3,911	4,091	3,064	3,579	2,998	2,691	2,815	3,107
GEOLOGICAL SCIENCES	744	3,848	5,226	6,759	6,429	6,704	7,344	8,070
ENVIRONMENTAL SCIENCES, NEC	4,082	1,259	1,430	-	-	-	-	-

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TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF AGRICULTURE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	1,783	2,457	2,928	3,548	2,935	1,894	2,085	2,293
MATHEMATICS	-	2,457	2,928	3,548	2,935	1,894	2,085	2,293
ENGINEERING, TOTAL	26,119	27,805	32,678	32,141	32,173	32,162	35,159	38,836
CHEMICAL	2,675	2,600	3,512	2,987	3,343	3,062	3,348	3,694
CIVIL	3,363	3,665	4,352	4,275	3,150	3,057	3,343	3,685
ELECTRICAL	197	244	259	170	243	171	187	207
MECHANICAL	1,993	2,140	2,347	1,936	2,398	2,637	2,886	3,177
ENGINEERING, NEC	17,891	18,958	22,208	22,793	23,039	23,235	25,395	28,073
SOCIAL SCIENCES, TOTAL	38,216	42,341	48,422	57,883	61,388	61,396	69,089	75,815
ANTHROPOLOGY	-	-	-	13	-	15	16	18
ECONOMICS	36,031	40,094	45,803	53,241	58,897	58,696	63,903	69,899
POLITICAL SCIENCE	-	-	-	-	71	72	80	87
SOCIOLOGY	1,132	1,764	2,293	3,326	3,472	3,578	3,948	4,340
SOCIAL SCIENCES, NEC	1,053	483	526	1,083	928	1,035	1,144	1,271
HISTORY	362	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	691	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	8	8	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF COMMERCE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	124,355	133,439	152,970	168,914	194,707	224,528	225,173	192,018
LIFE SCIENCES, TOTAL	40,980	41,920	49,790	48,347	53,899	53,592	81,660	44,924
BIOLOGICAL & AGRICULTURAL, TOTAL	40,980	41,920	49,790	48,347	53,899	53,592	81,660	44,924
AGRICULTURAL	-	-	-	48,347	53,899	53,592	81,660	44,924
MEDICAL SCIENCES, TOTAL	-	-	-	-	-	-	-	-
OTHER MEDICAL	-	-	-	-	-	-	-	-
PSYCHOLOGY, TOTAL	71	167	158	154	104	119	143	142
BIOLOGICAL ASPECTS	-	-	-	-	-	-	-	-
SOCIAL ASPECTS	71	167	158	154	104	119	143	142
PHYSICAL SCIENCES, TOTAL	16,175	18,044	19,608	25,871	28,588	26,313	28,311	29,718
ASTRONOMY	380	320	173	727	100	114	115	115
CHEMISTRY	5,120	5,812	6,714	7,177	7,215	7,152	7,354	8,164
PHYSICS	10,675	11,912	12,721	17,967	19,221	18,972	20,842	21,437
PHYSICAL SCIENCES, NEC	-	-	-	-	52	75	-	-
ENVIRONMENTAL SCIENCES, TOTAL	41,054	45,599	50,795	61,055	68,813	93,687	77,404	63,368
ATMOSPHERIC SCIENCES	24,518	27,286	28,342	28,120	28,741	32,313	33,415	31,190
GEOLOGICAL SCIENCES	1,355	1,339	1,146	1,487	1,733	1,813	1,444	5,230
OCEANOGRAPHY	15,181	16,974	21,307	31,123	38,258	59,524	42,545	26,946
ENVIRONMENTAL SCIENCES, NEC	-	-	-	345	83	37	-	-

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TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF COMMERCE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	2,187	3,760	4,748	4,272	5,178	7,069	7,353	8,489
MATHEMATICS	-	1,730	1,839	3,587	4,222	4,391	4,712	4,833
COMPUTER SCIENCES	-	2,030	2,909	685	956	1,507	1,351	2,341
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	1,171	1,290	1,315
ENGINEERING, TOTAL	16,129	15,806	21,301	21,540	29,270	37,278	43,250	42,305
AERONAUTICAL	-	-	-	20	29	85	-	-
CHEMICAL	80	62	444	389	766	720	1,001	1,217
CIVIL	5,155	4,959	5,137	5,353	8,550	11,937	11,011	11,571
ELECTRICAL	2,793	3,007	3,738	4,124	7,294	12,857	14,569	13,288
MECHANICAL	823	727	1,269	1,505	3,049	1,487	1,780	3,484
METALLURGY & MATERIALS	1,076	1,182	1,693	2,295	2,465	4,586	5,195	7,967
ENGINEERING, NEC	6,202	5,869	9,020	7,854	7,117	5,606	9,694	4,778
SOCIAL SCIENCES, TOTAL	7,739	6,959	5,826	7,633	10,743	6,435	7,012	3,034
ECONOMICS	7,582	6,739	5,610	7,424	10,463	6,186	5,345	2,754
POLITICAL SCIENCE	-	-	-	-	140	89	1,059	89
SOCIOLOGY	157	220	216	209	140	160	191	191
SOCIAL SCIENCES, NEC	-	-	-	-	-	-	417	-
OTHER SCIENCES, NEC	20	1,184	744	42	112	33	40	40

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 38. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF DEFENSE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	1,130,942	1,200,596	1,342,591	1,413,648	1,542,571	1,721,428	1,971,079	2,426,176
LIFE SCIENCES, TOTAL	63,214	75,633	86,060	87,038	91,088	100,371	116,285	125,916
BIOLOGICAL & AGRICULTURAL, TOTAL	23,812	24,264	37,700	29,009	36,728	41,958	48,576	55,041
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	27,288	34,101	38,757	42,644	50,814
ENVIRONMENTAL BIOLOGY	-	-	-	1,541	2,452	2,975	3,699	3,970
AGRICULTURAL	-	-	-	180	175	226	233	257
MEDICAL SCIENCES, TOTAL	39,097	50,946	47,285	54,757	50,830	54,495	65,419	65,382
CLINICAL MEDICAL	25,880	29,977	31,170	-	-	-	-	-
OTHER MEDICAL	13,217	20,969	16,115	-	-	-	-	-
LIFE SCIENCES, NEC	305	423	1,075	3,272	3,528	3,918	4,290	5,493
PSYCHOLOGY, TOTAL	30,080	29,684	36,567	35,349	40,270	45,062	48,196	61,335
BIOLOGICAL ASPECTS	804	706	697	1,181	621	-	-	-
SOCIAL ASPECTS	15,551	15,951	18,815	18,828	26,997	38,505	40,206	49,284
PSYCHOLOGICAL SCIENCES, NEC	13,725	13,027	17,055	15,340	12,652	6,557	7,990	12,051
PHYSICAL SCIENCES, TOTAL	175,419	186,515	215,279	225,772	237,016	243,399	313,588	463,774
ASTRONOMY	2,259	495	1,189	1,304	1,250	1,498	1,200	1,144
CHEMISTRY	30,950	35,448	33,685	38,891	59,487	42,549	48,515	56,858
PHYSICS	108,952	107,605	119,766	118,186	165,477	158,217	213,748	336,526
PHYSICAL SCIENCES, NEC	33,258	42,967	60,639	67,391	10,802	41,135	52,127	69,246
ENVIRONMENTAL SCIENCES, TOTAL	74,100	88,536	64,748	69,051	75,107	98,677	100,493	125,763
ATMOSPHERIC SCIENCES	41,882	43,055	29,683	29,741	41,866	61,195	59,629	66,806
GEOLOGICAL SCIENCES	10,976	18,132	16,981	14,974	10,495	10,722	20,905	33,530
OCEANOGRAPHY	15,857	25,390	16,646	18,256	14,099	18,889	15,677	18,428
ENVIRONMENTAL SCIENCES, NEC	5,385	1,959	1,436	6,080	8,647	7,871	4,282	6,999

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TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF DEFENSE

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	46,750	55,713	64,490	63,946	69,058	90,483	111,535	123,389
MATHEMATICS	-	14,224	8,373	6,665	5,576	7,266	7,348	6,063
COMPUTER SCIENCES	-	40,544	47,079	45,599	50,442	69,336	80,019	81,323
MATHEMATICS & COMPUTER SCIENCES, NEC	-	945	9,038	11,682	13,040	13,881	24,168	35,983
ENGINEERING, TOTAL	671,969	698,703	794,913	850,410	909,955	995,489	1,118,920	1,339,125
AERONAUTICAL	105,342	100,679	117,897	124,562	167,716	188,702	205,274	244,953
ASTRONAUTICAL	9,797	10,166	24,596	26,876	35,930	67,813	64,634	87,158
CHEMICAL	11,810	15,559	19,522	19,919	25,764	14,539	41,862	25,004
CIVIL	25,010	34,288	22,885	22,838	26,450	28,603	30,128	41,030
ELECTRICAL	196,878	179,887	268,119	310,676	322,832	395,636	446,953	563,904
MECHANICAL	100,242	117,228	116,649	139,045	120,583	98,640	93,539	107,610
METALLURGY & MATERIALS	43,739	44,684	55,758	44,150	38,580	48,825	62,187	89,778
ENGINEERING, NEC	179,151	196,214	189,487	162,348	172,120	156,731	174,343	199,888
SOCIAL SCIENCES, TOTAL	3,733	3,767	2,054	4,282	6,484	686	844	916
ANTHROPOLOGY	-	18	-	-	-	-	-	-
ECONOMICS	1,068	854	218	1,033	100	101	140	154
POLITICAL SCIENCE	1,347	891	1,404	2,003	1,940	71	102	-
SOCIOLOGY	392	314	432	1,248	489	514	557	712
SOCIAL SCIENCES, NEC	926	1,690	-	-	3,955	-	45	50
LINGUISTICS	18	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	908	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	65,677	62,045	78,482	77,800	113,595	147,281	181,218	185,978

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF ENERGY 1/

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	280,673	400,709	501,816	661,709	668,878	754,190	812,748	939,104
LIFE SCIENCES, TOTAL	107,682	78,545	89,042	105,372	110,629	116,692	117,047	116,328
BIOLOGICAL & AGRICULTURAL, TOTAL	98,766	50,597	55,410	68,275	63,730	70,375	71,409	70,377
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	66,275	60,496	63,218	65,304	65,987
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	3,356	2,895	1,000
AGRICULTURAL	-	-	-	2,000	3,234	3,801	3,210	3,390
MEDICAL SCIENCES, TOTAL	8,916	8,523	9,028	6,000	7,310	7,285	6,429	7,814
CLINICAL MEDICAL	8,916	3,957	2,100	-	-	-	-	-
OTHER MEDICAL	-	4,566	6,928	-	-	-	-	-
LIFE SCIENCES, NEC	-	19,425	24,604	31,097	39,589	39,032	39,209	38,137
PHYSICAL SCIENCES, TOTAL	88,082	208,040	258,943	290,454	317,745	359,960	412,127	507,589
CHEMISTRY	14,448	22,687	14,560	28,178	14,629	22,205	29,138	47,529
PHYSICS	73,553	180,654	237,163	262,210	286,915	321,271	369,902	441,493
PHYSICAL SCIENCES, NEC	81	4,719	7,220	66	16,201	16,484	13,087	18,567
ENVIRONMENTAL SCIENCES, TOTAL	14,438	72,300	81,225	86,700	96,370	109,166	113,130	109,641
ATMOSPHERIC SCIENCES	8,830	14,959	13,433	13,890	15,503	15,937	15,850	14,352
GEOLOGICAL SCIENCES	587	21,712	24,849	27,938	25,388	24,891	23,703	21,659
OCEANOGRAPHY	5,021	13,787	13,354	12,438	13,094	14,284	14,681	11,056
ENVIRONMENTAL SCIENCES, NEC	-	21,842	29,589	32,434	42,385	54,054	61,896	62,574

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TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF ENERGY 1/

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	-	-	-	300	599	1,448	1,688	2,029
MATHEMATICS	-	-	-	-	99	-	-	-
COMPUTER SCIENCES	-	-	-	300	500	-	-	-
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	-	1,448	1,688	2,029
ENGINEERING, TOTAL	70,471	39,515	59,920	181,515	129,107	150,553	150,629	181,606
ASTRONAUTICAL	-	-	-	-	2,025	-	-	-
CHEMICAL	24,927	11,876	14,177	40,663	10,642	14,201	15,924	19,248
CIVIL	17,000	1,000	3,700	4,114	-	1,030	980	970
ELECTRICAL	5,656	100	2,402	17,570	8,271	14,383	14,213	7,525
MECHANICAL	7,210	2,822	4,754	1,288	1,412	23,431	22,170	22,649
METALLURGY & MATERIALS	8,002	14,421	18,194	22,671	13,748	14,124	15,500	40,229
ENGINEERING, NEC	9,676	9,298	16,693	75,211	95,009	83,384	81,842	90,985
SOCIAL SCIENCES, TOTAL	-	2,309	2,688	325	2,908	2,269	2,802	3,144
ECONOMICS	-	2,309	1,551	120	-	-	-	-
POLITICAL SCIENCE	-	-	-	-	557	-	-	-
SOCIOLOGY	-	-	135	205	-	-	-	-
SOCIAL SCIENCES, NEC	-	-	1,000	-	2,349	2,269	2,802	3,144
OTHER SCIENCES, NEC	-	-	10,000	17,043	11,522	14,102	15,545	18,767

1/ DATA SHOWN FOR FISCAL YEARS 1970-73 AND FISCAL YEARS 1974-76 REPRESENT OBLIGATIONS OF THE ATOMIC ENERGY COMMISSION AND THE ENERGY RESEARCH & DEVELOPMENT ADMINISTRATION, RESPECTIVELY.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF HEALTH & HUMAN SERVICES 1/

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	1,013,093	1,136,379	1,266,816	1,417,411	1,439,658	1,570,109	1,598,834	1,681,755
LIFE SCIENCES, TOTAL	805,185	884,510	977,096	1,108,659	1,092,958	1,224,178	1,255,210	1,324,087
BIOLOGICAL & AGRICULTURAL, TOTAL	299,906	331,000	367,583	424,155	434,041	529,907	545,653	581,461
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	424,155	434,041	529,858	545,653	581,461
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	49	-	-
MEDICAL SCIENCES, TOTAL	482,391	533,344	581,887	654,867	619,976	651,952	668,812	702,242
CLINICAL MEDICAL	427,564	472,699	510,815	-	-	-	-	-
OTHER MEDICAL	54,827	60,645	71,072	-	-	-	-	-
LIFE SCIENCES, NEC	22,888	20,166	27,626	29,637	38,941	42,319	40,745	40,364
PSYCHOLOGY, TOTAL	34,792	46,495	42,792	50,056	64,601	51,845	48,255	52,128
BIOLOGICAL ASPECTS	12,816	16,971	16,194	18,643	19,489	21,680	19,126	21,039
SOCIAL ASPECTS	10,464	17,576	12,939	16,275	18,119	18,126	13,594	14,356
PSYCHOLOGICAL SCIENCES, NEC	11,512	11,948	13,659	15,138	26,993	12,039	15,535	16,733
PHYSICAL SCIENCES, TOTAL	18,217	19,635	21,659	25,375	29,084	26,054	26,825	28,800
CHEMISTRY	16,200	17,432	19,226	22,645	26,084	22,502	23,140	24,948
PHYSICS	2,017	2,203	2,433	2,730	2,980	3,552	3,685	3,938
PHYSICAL SCIENCES, NEC	-	-	-	-	-	-	-	-

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TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF HEALTH & HUMAN SERVICES 1/

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	5,259	5,438	6,693	6,539	3,944	4,115	4,248	4,526
MATHEMATICS	-	5,438	6,210	6,383	3,380	3,760	3,923	4,193
COMPUTER SCIENCES	-	-	483	156	92	85	100	100
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	492	270	225	233
ENGINEERING, TOTAL	18,927	20,676	29,325	32,079	28,203	17,170	17,878	19,106
CHEMICAL	-	-	-	-	-	-	-	-
CIVIL	-	-	-	-	-	-	-	-
ELECTRICAL	-	-	-	-	-	-	-	-
MECHANICAL	-	-	-	-	-	-	-	-
METALLURGY & MATERIALS	-	-	-	-	-	-	-	-
ENGINEERING, NEC	18,927	20,676	29,325	32,079	28,203	17,170	17,878	19,106
SOCIAL SCIENCES, TOTAL	84,362	112,236	137,729	139,865	140,393	147,201	143,469	148,160
ANTHROPOLOGY	3,366	3,478	1,733	3,098	2,572	568	545	547
ECONOMICS	20,521	15,369	12,370	19,040	16,813	17,224	16,024	12,203
POLITICAL SCIENCE	1,328	490	175	244	506	535	579	388
SOCIOLOGY	24,443	22,049	17,992	23,889	23,823	26,381	25,434	22,842
SOCIAL SCIENCES, NEC	34,704	70,850	105,459	93,596	96,679	102,493	100,887	112,180
HISTORY	372	-	-	-	-	-	-	-
LINGUISTICS	743	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	33,589	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	46,351	47,389	51,322	54,838	80,495	99,548	102,949	104,882

1/ DATA SHOWN FOR FISCAL YEARS 1970-78 REPRESENT OBLIGATIONS OF THE DEPARTMENT OF HEALTH, EDUCATION, & WELFARE MINUS DATA FOR THE OFFICE OF EDUCATION, THE NATIONAL INSTITUTE OF EDUCATION, AND THE OFFICE OF THE ASSISTANT SECRETARY FOR EDUCATION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 38. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

HHS: ALCOHOL, DRUG ABUSE, & MENTAL HEALTH ADMIN

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	73,180	84,060	89,298	98,834	118,913	128,800	125,831	135,816
LIFE SCIENCES, TOTAL	36,820	39,401	42,987	47,024	58,043	65,077	66,872	72,442
BIOLOGICAL & AGRICULTURAL, TOTAL	16,019	23,851	25,001	26,949	30,834	31,808	31,623	35,142
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	26,949	30,834	31,759	31,623	35,142
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	49	-	-
MEDICAL SCIENCES, TOTAL	12,607	11,411	8,126	9,862	12,249	16,435	19,011	22,267
CLINICAL MEDICAL	8,023	9,586	6,690	-	-	-	-	-
OTHER MEDICAL	4,584	1,825	1,436	-	-	-	-	-
LIFE SCIENCES, NEC	8,194	4,139	9,860	10,213	14,960	16,834	16,238	15,033
PSYCHOLOGY, TOTAL	22,581	28,294	28,142	32,494	31,045	40,411	38,369	39,423
BIOLOGICAL ASPECTS	12,816	16,971	16,194	18,643	19,489	21,680	19,126	21,039
SOCIAL ASPECTS	9,190	11,323	11,948	13,596	18,119	18,126	13,594	14,356
PSYCHOLOGICAL SCIENCES, NEC	575	-	-	255	437	605	3,649	4,028
PHYSICAL SCIENCES, TOTAL	298	61	40	1,047	224	696	556	809
CHEMISTRY	298	61	40	1,047	224	696	556	809

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TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

HHS: ALCOHOL, DRUG ABUSE, & MENTAL HEALTH ADMIN

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	993	777	1,383	718	584	355	325	333
MATHEMATICS	-	777	1,063	562	-	-	-	-
COMPUTER SCIENCES	-	-	300	156	92	85	100	100
MATHEMATICS & COMPUTER SCIENCES, NEC	-	-	-	-	492	270	225	233
ENGINEERING, TOTAL	-	-	-	136	136	49	48	49
ENGINEERING, NEC	-	-	-	136	136	49	48	49
SOCIAL SCIENCES, TOTAL	9,858	14,617	14,388	17,415	20,378	19,737	19,259	19,816
ANTHROPOLOGY	1,591	3,478	1,733	3,096	2,572	568	545	547
ECONOMICS	74	137	153	184	273	50	36	38
POLITICAL SCIENCE	74	-	157	112	272	298	288	290
SOCIOLOGY	3,716	9,350	10,557	12,162	15,314	16,081	15,196	15,586
SOCIAL SCIENCES, NEC	4,403	1,652	1,786	1,861	1,947	2,740	3,194	3,355
HISTORY	372	-	-	-	-	-	-	-
LINGUISTICS	743	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	3,288	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	2,630	910	2,378	-	1,503	2,475	2,402	2,944

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

HHS: NATIONAL INSTITUTES OF HEALTH

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	775,697	847,380	935,882	1,051,502	1,066,408	1,145,129	1,188,645	1,270,400
LIFE SCIENCES, TOTAL	674,546	736,882	813,843	914,341	889,752	990,753	1,028,415	1,099,140
BIOLOGICAL & AGRICULTURAL, TOTAL	255,670	279,298	308,467	346,594	349,314	431,747	448,118	479,967
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	346,594	349,314	431,747	448,118	479,967
MEDICAL SCIENCES, TOTAL	404,526	441,909	488,062	548,323	516,457	533,521	555,790	593,842
CLINICAL MEDICAL	404,526	441,909	488,062	-	-	-	-	-
LIFE SCIENCES, NEC	14,350	15,677	17,314	19,424	23,981	25,485	24,507	25,331
PSYCHOLOGY, TOTAL	10,937	11,948	13,196	14,883	26,556	11,434	11,886	12,705
PSYCHOLOGICAL SCIENCES, NEC	10,937	11,948	13,196	14,883	26,556	11,434	11,886	12,705
PHYSICAL SCIENCES, TOTAL	17,919	19,574	21,619	24,328	28,840	25,358	28,269	28,077
CHEMISTRY	15,902	17,371	19,186	21,598	25,860	21,806	22,584	24,139
PHYSICS	2,017	2,203	2,433	2,730	2,980	3,552	3,685	3,938
PHYSICAL SCIENCES, NEC	-	-	-	-	-	-	-	-

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TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

HHS: NATIONAL INSTITUTES OF HEALTH

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	4,266	4,661	5,147	5,821	3,360	3,760	3,923	4,193
MATHEMATICS	-	4,661	5,147	5,821	3,360	3,760	3,923	4,193
ENGINEERING, TOTAL	18,927	20,676	22,836	25,605	28,087	17,121	17,830	19,057
ENGINEERING, NEC	18,927	20,676	22,836	25,605	28,087	17,121	17,830	19,057
SOCIAL SCIENCES, TOTAL	8,843	9,660	10,669	11,986	11,141	5,072	5,230	5,590
SOCIAL SCIENCES, NEC	8,843	9,660	10,669	11,986	11,141	5,072	5,230	5,590
OTHER SOCIAL SCIENCES	8,843	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	40,259	43,979	48,572	54,538	78,692	91,631	95,092	101,638

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

DEPARTMENT OF THE INTERIOR

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	179,109	205,128	192,363	217,616	266,946	282,812	287,008	273,597
LIFE SCIENCES, TOTAL	37,897	40,215	45,206	57,323	75,960	81,138	84,059	79,654
BIOLOGICAL & AGRICULTURAL, TOTAL	37,817	40,155	45,113	57,228	75,800	81,003	84,007	79,654
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	41,205	60,649	38,860	54,988	48,317
ENVIRONMENTAL BIOLOGY	-	-	-	15,265	14,081	40,756	27,579	30,297
AGRICULTURAL	-	-	-	758	1,070	1,387	1,440	1,040
MEDICAL SCIENCES, TOTAL	53	40	50	60	95	79	31	-
OTHER MEDICAL	53	40	50	-	-	-	-	-
LIFE SCIENCES, NEC	27	20	43	35	65	58	21	-
PSYCHOLOGY, TOTAL	315	243	320	350	414	462	122	-
BIOLOGICAL ASPECTS	-	-	-	-	414	-	-	-
SOCIAL ASPECTS	315	243	320	350	-	323	122	-
PSYCHOLOGICAL SCIENCES, NEC	-	-	-	-	-	139	-	-
PHYSICAL SCIENCES, TOTAL	5,139	5,988	6,844	7,807	6,553	6,400	6,711	7,231
ASTRONOMY	-	31	27	-	-	-	-	-
CHEMISTRY	4,394	5,200	5,895	6,796	5,308	4,448	4,810	5,425
PHYSICS	745	757	922	1,011	942	1,552	996	1,006
PHYSICAL SCIENCES, NEC	-	-	-	-	303	400	905	800
ENVIRONMENTAL SCIENCES, TOTAL	70,844	73,485	80,775	91,880	109,933	111,154	117,508	112,745
ATMOSPHERIC SCIENCES	4,229	4,821	6,564	7,890	9,398	10,784	9,521	6,857
GEOLOGICAL SCIENCES	58,230	59,320	64,052	73,384	89,633	84,697	92,213	93,865
OCEANOGRAPHY	7,537	8,718	7,830	7,268	6,941	8,976	9,769	10,077
ENVIRONMENTAL SCIENCES, NEC	848	606	2,329	3,340	3,961	6,697	6,005	2,146

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TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

DEPARTMENT OF THE INTERIOR

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	1,996	2,332	2,278	4,089	5,478	6,265	6,440	5,877
MATHEMATICS	-	1,702	1,375	2,325	4,166	4,346	4,290	3,351
COMPUTER SCIENCES	-	579	807	1,654	1,192	1,821	2,112	2,526
MATHEMATICS & COMPUTER SCIENCES, NEC	-	51	96	110	120	98	38	-
ENGINEERING, TOTAL	58,607	76,509	51,740	51,293	62,809	72,248	68,153	64,830
ASTRONAUTICAL	-	-	-	-	161	-	-	-
CHEMICAL	8,574	12,374	6,283	4,746	5,028	3,949	3,454	6,830
CIVIL	9,881	12,793	8,407	13,776	12,887	20,029	19,444	12,615
ELECTRICAL	4,041	5,539	774	820	1,178	560	544	510
MECHANICAL	4,719	6,080	5,119	4,560	6,232	6,381	6,157	4,661
METALLURGY & MATERIALS	28,526	39,048	30,427	25,910	35,762	40,809	34,850	39,400
ENGINEERING, NEC	866	677	730	1,481	1,561	520	3,704	814
SOCIAL SCIENCES, TOTAL	5,144	5,398	4,598	4,174	4,980	4,391	3,827	3,210
ANTHROPOLOGY	3,125	3,623	2,606	2,270	2,283	2,300	2,300	3,000
ECONOMICS	714	560	788	559	845	548	237	15
POLITICAL SCIENCE	548	421	480	640	750	600	229	-
SOCIOLOGY	467	440	425	485	797	551	403	195
SOCIAL SCIENCES, NEC	290	354	299	220	305	392	658	-
HISTORY	84	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	226	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	1,187	978	802	700	819	754	188	50

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

ENVIRONMENTAL PROTECTION AGENCY

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	124,311	141,695	198,956	246,880	248,900	231,500	245,700	201,400
LIFE SCIENCES, TOTAL	27,700	43,060	70,688	73,998	79,907	68,999	72,055	60,879
BIOLOGICAL & AGRICULTURAL, TOTAL	23,600	37,419	66,176	69,558	71,528	58,701	68,343	58,901
ENVIRONMENTAL BIOLOGY	-	-	-	69,558	53,628	44,560	68,343	58,901
AGRICULTURAL	-	-	-	-	17,900	14,141	-	-
MEDICAL SCIENCES, TOTAL	4,100	5,641	4,512	4,440	8,379	10,298	3,712	1,978
CLINICAL MEDICAL	-	-	-	-	-	-	-	-
OTHER MEDICAL	4,100	5,641	4,512	-	-	-	-	-
PSYCHOLOGY, TOTAL	-	-	-	-	-	-	-	-
BIOLOGICAL ASPECTS	-	-	-	-	-	-	-	-
SOCIAL ASPECTS	-	-	-	-	-	-	-	-
PHYSICAL SCIENCES, TOTAL	27,500	45,642	48,894	69,065	71,446	69,283	78,489	64,459
CHEMISTRY	21,000	41,990	44,984	66,425	70,671	68,408	78,489	64,459
PHYSICS	6,500	3,652	3,710	2,640	775	875	-	-
PHYSICAL SCIENCES, NEC	-	-	-	-	-	-	-	-
ENVIRONMENTAL SCIENCES, TOTAL	5,700	3,568	5,444	4,464	2,204	5,188	2,848	2,775
ATMOSPHERIC SCIENCES	3,300	683	590	1,311	460	810	1,521	2,050
GEOLOGICAL SCIENCES	1,000	1,205	3,179	2,051	1,586	4,226	902	725
OCEANOGRAPHY	1,400	1,678	1,675	1,102	158	152	375	-
ENVIRONMENTAL SCIENCES, NEC	-	-	-	-	-	-	-	-

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TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

ENVIRONMENTAL PROTECTION AGENCY

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	2,300	2,330	3,100	3,699	1,024	1,038	300	-
MATHEMATICS	-	466	2,370	1,797	-	-	300	-
COMPUTER SCIENCES	-	1,864	730	1,902	1,024	1,038	-	-
ENGINEERING, TOTAL	55,471	45,197	65,715	92,950	92,733	85,253	90,685	72,077
ASTRONAUTICAL	-	-	-	-	-	-	-	-
CHEMICAL	14,200	16,988	25,212	39,828	42,205	31,966	64,902	52,248
CIVIL	19,800	17,750	24,890	33,673	34,558	37,081	25,783	19,829
ELECTRICAL	4,471	5,232	7,814	7,780	4,325	4,426	-	-
MECHANICAL	17,000	5,227	7,799	11,669	11,645	11,780	-	-
SOCIAL SCIENCES, TOTAL	5,640	1,900	3,315	2,484	1,588	1,739	1,323	1,210
ECONOMICS	4,400	1,520	2,395	2,279	1,588	1,239	1,323	1,210
SOCIOLOGY	1,240	380	920	205	-	500	-	-
SOCIAL SCIENCES, NEC	-	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	625,804	929,632	792,302	865,438	938,389	1,050,531	1,014,172	1,060,930
LIFE SCIENCES, TOTAL	10,995	16,325	12,881	29,020	38,787	53,705	44,536	45,844
BIOLOGICAL & AGRICULTURAL, TOTAL	2,860	1,078	1,699	4,544	8,011	19,267	21,238	23,098
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	4,544	5,759	6,482	6,533	6,712
ENVIRONMENTAL BIOLOGY	-	-	-	-	2,248	1,420	1,125	1,125
AGRICULTURAL	-	-	-	-	4	11,365	13,580	15,261
MEDICAL SCIENCES, TOTAL	6,906	14,333	10,433	24,476	29,965	33,548	22,398	21,821
CLINICAL MEDICAL	749	875	982	-	-	-	-	-
OTHER MEDICAL	6,157	13,458	9,451	-	-	-	-	-
LIFE SCIENCES, NEC	1,229	914	729	-	811	890	900	925
PSYCHOLOGY, TOTAL	7,933	9,702	10,332	9,684	1,150	1,323	1,178	1,243
BIOLOGICAL ASPECTS	1,058	-	9,637	747	-	-	-	-
SOCIAL ASPECTS	5,719	386	477	359	992	1,165	978	993
PSYCHOLOGICAL SCIENCES, NEC	1,156	9,316	218	8,558	158	158	200	250
PHYSICAL SCIENCES, TOTAL	13,801	14,198	24,584	21,714	12,294	12 253	12,479	18,463
ASTRONOMY	2,292	2,287	2,595	1,497	2,438	4,614	5,000	5,100
CHEMISTRY	1,705	519	1,419	339	1,134	1,491	1,111	1,239
PHYSICS	3,883	6,683	13,829	13,059	3,701	3,902	4,200	4,250
PHYSICAL SCIENCES, NEC	5,921	4,709	6,721	6,819	5,023	2,246	2,168	5,874
ENVIRONMENTAL SCIENCES, TOTAL	199,300	158,646	201,624	234,881	265,089	294,374	289,730	331,256
ATMOSPHERIC SCIENCES	84,179	65,241	80,268	64,272	72,803	98,246	90,761	111,882
GEOLOGICAL SCIENCES	25,739	20,074	23,154	41,211	62,455	67,834	72,862	82,926
OCEANOGRAPHY	22,300	18,508	28,361	29,014	24,087	24,975	28,325	31,752
ENVIRONMENTAL SCIENCES, NEC	67,082	54,825	69,841	100,384	105,744	103,319	97,782	104,696

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TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	1,157	908	23,423	16,183	1,654	1,908	2,515	4,762
MATHEMATICS	-	-	20,557	1,341	1,370	1,179	1,640	3,812
COMPUTER SCIENCES	-	-	2,866	14,842	284	635	775	825
MATHEMATICS & COMPUTER SCIENCES, NEC	-	908	-	-	-	94	100	125
ENGINEERING, TOTAL	385,554	719,731	517,320	552,585	618,397	686,334	663,034	660,612
AERONAUTICAL	205,727	392,393	238,875	272,628	387,590	415,808	388,474	379,603
ASTRONAUTICAL	77,586	156,988	123,833	122,879	187,332	208,609	204,543	215,621
CHEMICAL	2,813	8,159	10,859	15,898	13	33	40	45
CIVIL	256	1,145	1,314	1,564	-	-	-	-
ELECTRICAL	18,196	46,703	38,703	24,098	1,408	2,203	2,400	2,500
MECHANICAL	9,665	28,081	22,508	34,813	941	1,614	1,700	1,750
METALLURGY & MATERIALS	39,493	69,839	60,815	54,315	5,114	3,776	500	1,465
ENGINEERING, NEC	31,818	16,423	20,613	26,390	56,001	56,291	65,377	59,628
SOCIAL SCIENCES, TOTAL	896	1,744	533	49	15	30	50	75
ECONOMICS	595	1,647	457	-	-	-	-	-
POLITICAL SCIENCE	211	57	30	29	15	-	-	-
SOCIOLOGY	-	-	-	-	-	-	-	-
SOCIAL SCIENCES, NEC	90	40	48	20	-	30	50	75
HISTORY	47	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	43	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	6,188	8,380	1,645	1,342	1,023	804	850	675

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 38. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

NATIONAL SCIENCE FOUNDATION

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	84,026	72,142	63,400	65,482	66,770	58,441	59,764	54,456
LIFE SCIENCES, TOTAL	6,223	6,759	5,085	3,084	4,743	8,071	5,786	6,151
BIOLOGICAL & AGRICULTURAL, TOTAL	6,223	6,745	5,005	118	211	7,897	5,601	5,701
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	118	211	5,974	4,251	4,201
ENVIRONMENTAL BIOLOGY	-	-	-	-	-	1,923	1,350	1,500
MEDICAL SCIENCES, TOTAL	-	-	-	-	-	-	-	-
CLINICAL MEDICAL	-	-	-	-	-	-	-	-
OTHER MEDICAL	-	-	-	-	-	-	-	-
LIFE SCIENCES, NEC	-	-	-	-	-	-	-	-
PSYCHOLOGY, TOTAL	638	14	80	2,988	4,532	174	185	450
BIOLOGICAL ASPECTS	463	-	-	-	571	1,621	1,380	600
SOCIAL ASPECTS	175	-	-	-	5	370	275	150
PHYSICAL SCIENCES, TOTAL	11,366	4,573	4,980	5,922	566	1,251	1,105	450
ASTRONOMY	380	-	-	-	8,717	4,652	6,289	6,778
CHEMISTRY	6,353	2,510	3,289	3,571	-	25	-	40
PHYSICS	4,653	2,083	1,711	2,351	5,284	2,339	2,913	3,141
PHYSICAL SCIENCES, NEC	-	-	-	-	3,365	1,777	2,356	2,687
ENVIRONMENTAL SCIENCES, TOTAL	12,518	9,289	4,733	3,709	68	511	1,000	910
ATMOSPHERIC SCIENCES	6,902	5,545	2,930	300	3,803	3,021	2,473	2,541
GEOLOGICAL SCIENCES	4,147	3,113	1,792	3,185	126	109	30	15
OCEANOGRAPHY	1,469	478	-	3	3,087	2,038	1,948	1,991
ENVIRONMENTAL SCIENCES, NEC	-	153	11	241	75	15	200	310
					515	881	295	225

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TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

NATIONAL SCIENCE FOUNDATION

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	1,484	1,848	3,279	1,181	2,733	4,909	5,801	2,924
MATHEMATICS	-	98	249	338	460	206	234	287
COMPUTER SCIENCES	-	1,585	3,030	825	2,273	4,634	5,452	2,437
MATHEMATICS & COMPUTER SCIENCES, NEC	-	165	-	-	-	69	115	200
ENGINEERING, TOTAL	23,428	15,506	15,711	19,479	20,142	17,424	19,467	20,849
AERONAUTICAL	-	-	120	125	-	-	-	-
CHEMICAL	446	532	584	618	617	442	431	1,142
CIVIL	446	562	1,652	1,437	11,519	10,878	10,178	9,972
ELECTRICAL	446	531	649	680	360	605	1,235	3,030
MECHANICAL	446	551	657	676	46	387	1,558	331
METALLURGY & MATERIALS	2,728	1,992	1,462	1,280	2,348	3,503	3,722	3,792
ENGINEERING, NEC	18,916	11,338	10,587	14,685	5,252	1,611	2,343	2,582
SOCIAL SCIENCES, TOTAL	13,192	22,104	19,491	18,699	17,165	10,647	9,903	6,959
ANTHROPOLOGY	350	40	-	-	-	62	10	10
ECONOMICS	1,135	886	1,500	1,480	2,988	5,216	4,775	3,480
POLITICAL SCIENCE	186	77	120	415	298	325	260	100
SOCIOLOGY	333	234	210	357	303	830	879	945
SOCIAL SCIENCES, NEC	11,188	20,867	17,661	16,467	13,576	4,214	3,979	2,424
HISTORY	111	-	-	-	-	-	-	-
LINGUISTICS	180	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	10,897	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	15,177	12,085	10,121	13,408	8,898	8,098	8,685	7,654

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

ALL OTHER DEPARTMENTS AND AGENCIES

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
TOTAL, ALL FIELDS	319,252	350,032	416,034	487,461	587,170	633,903	688,710	690,578
LIFE SCIENCES, TOTAL	96,328	83,100	98,789	104,588	165,877	181,164	202,037	201,278
BIOLOGICAL & AGRICULTURAL, TOTAL	30,977	29,775	29,301	29,142	59,557	60,608	68,002	82,305
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	-	-	-	27,460	22,078	18,493	19,265	26,787
ENVIRONMENTAL BIOLOGY	-	-	-	-	1,702	1,554	725	1,565
AGRICULTURAL	-	-	-	1,682	35,777	40,561	48,012	53,953
MEDICAL SCIENCES, TOTAL	64,439	52,548	67,205	71,018	98,819	117,084	130,540	117,465
CLINICAL MEDICAL	45,790	34,415	46,184	-	-	-	-	-
OTHER MEDICAL	18,649	18,131	21,041	-	-	-	-	-
LIFE SCIENCES, NEC	912	779	2,283	4,428	7,501	3,472	3,495	1,508
PSYCHOLOGY, TOTAL	8,721	12,124	10,258	13,551	15,134	14,299	19,217	14,407
BIOLOGICAL ASPECTS	4,070	7,665	8,559	9,354	9,878	7,672	11,120	10,282
SOCIAL ASPECTS	2,593	4,459	1,697	4,097	2,790	3,985	4,890	618
PSYCHOLOGICAL SCIENCES, NEC	58	-	-	100	2,466	2,642	3,207	3,527
PHYSICAL SCIENCES, TOTAL	2,149	3,242	3,630	4,578	5,223	3,772	5,122	5,281
ASTRONOMY	-	-	-	-	-	-	-	83
CHEMISTRY	1,841	2,175	2,420	3,331	3,928	1,511	1,934	1,397
PHYSICS	61	140	470	437	915	1,344	1,930	2,334
PHYSICAL SCIENCES, NEC	247	927	740	810	380	917	1,258	1,467
ENVIRONMENTAL SCIENCES, TOTAL	7,859	3,089	8,628	1,083	2,197	2,082	1,840	1,784
ATMOSPHERIC SCIENCES	3,060	45	892	5	400	210	532	190
GEOLOGICAL SCIENCES	342	2,716	331	237	194	430	25	706
OCEANOGRAPHY	258	182	407	859	1,215	1,015	545	575
ENVIRONMENTAL SCIENCES, NEC	4,199	166	6,998	182	388	427	538	313

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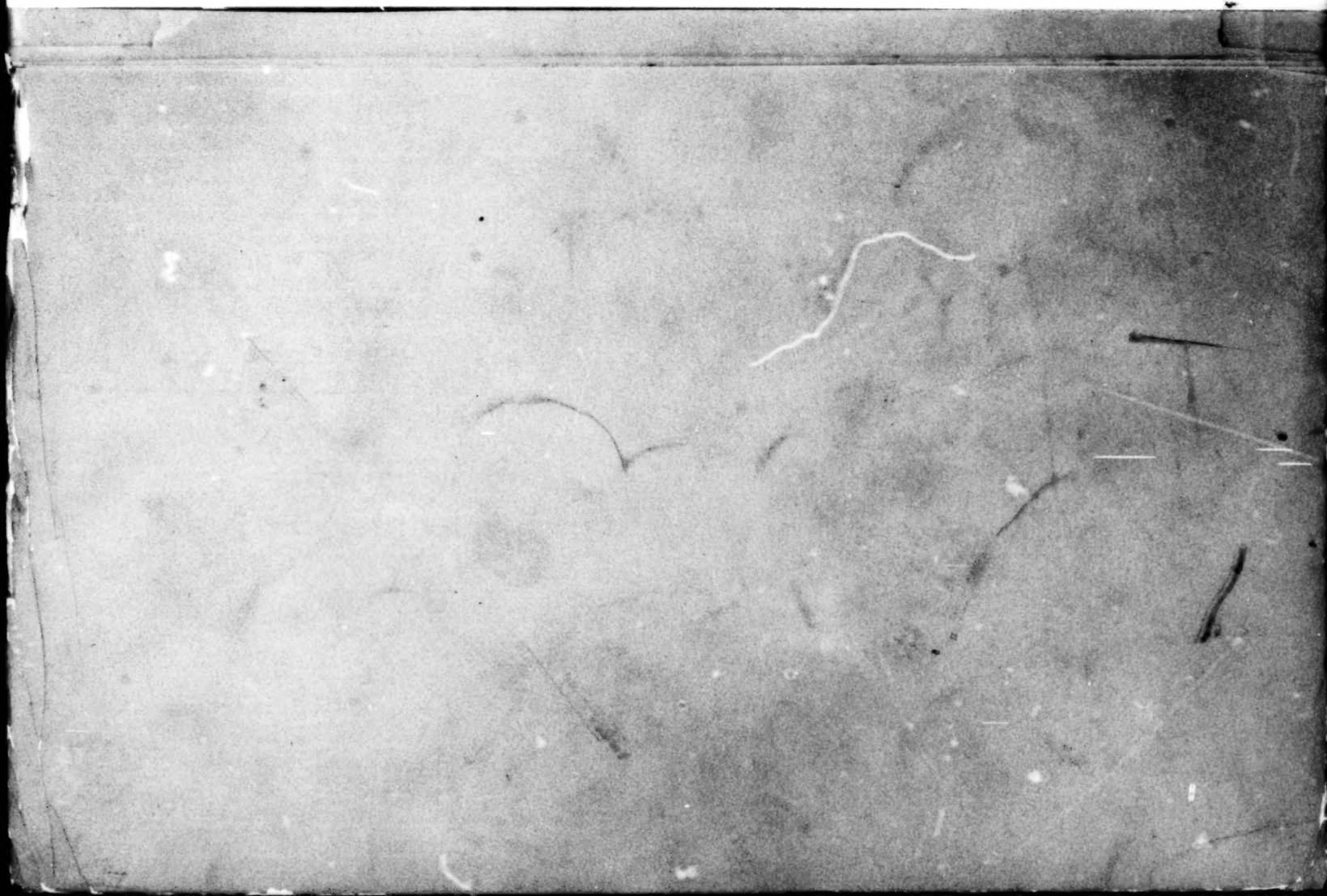
TABLE 3B. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE AND SELECTED AGENCY: FISCAL YEARS 1975-82

(THOUSANDS OF DOLLARS)

- CONTINUED

ALL OTHER DEPARTMENTS AND AGENCIES

FIELD OF SCIENCE	1975	1976	1977	1978	1979	1980	ESTIMATES 1981	ESTIMATES 1982
MATHEMATICS & COMPUTER SCIENCES, TOTAL	337	1,207	1,533	14,203	12,893	4,886	3,540	4,781
MATHEMATICS	-	582	378	11,258	1,775	791	486	734
COMPUTER SCIENCES	-	387	433	648	6,158	2,920	2,897	3,967
MATHEMATICS & COMPUTER SCIENCES, NEC	-	238	722	2,297	4,960	1,175	157	80
ENGINEERING, TOTAL	130,255	136,608	188,811	214,257	213,788	270,590	299,892	324,636
AERONAUTICAL	3,838	1,787	2,435	2,711	1,125	1,382	1,488	3,510
ASTRONAUTICAL	405	382	381	442	525	719	665	775
CHEMICAL	1,988	1,695	174	301	1,302	1,275	1,259	1,514
CIVIL	36,963	21,957	34,661	44,427	13,596	24,058	24,678	25,417
ELECTRICAL	6,524	3,383	5,130	9,064	11,668	15,460	18,588	20,030
MECHANICAL	2,751	2,710	8,443	9,168	13,679	19,394	20,187	19,858
METALLURGY & MATERIALS	562	472	796	813	232	1,224	343	2,084
ENGINEERING, NEC	77,224	104,282	134,591	147,331	171,661	207,078	232,704	251,450
SOCIAL SCIENCES, TOTAL	69,137	107,272	105,958	129,965	151,952	141,837	134,724	117,850
ANTHROPOLOGY	25	-	-	2,190	-	-	-	-
ECONOMICS	32,126	41,985	43,277	44,460	59,547	65,551	69,120	65,811
POLITICAL SCIENCE	6,466	2,304	3,728	2,240	5,504	3,075	3,548	2,925
SOCIOLOGY	11,674	11,643	13,598	11,823	17,093	13,544	13,148	10,953
SOCIAL SCIENCES, NEC	18,846	51,360	45,357	69,252	69,808	59,667	48,912	38,161
HISTORY	-	-	-	-	-	-	-	-
LINGUISTICS	-	-	-	-	-	-	-	-
OTHER SOCIAL SCIENCES	18,846	-	-	-	-	-	-	-
OTHER SCIENCES, NEC	6,466	3,390	649	5,238	20,106	15,273	22,538	20,563

SOURCE: NATIONAL SCIENCE FOUNDATION